AUDIO VIDEO SURROUND RECEIVER

KRF-V4550D/V4550DE
KRF-V4550D-S
SERVICE MANUAL

KENWOOD

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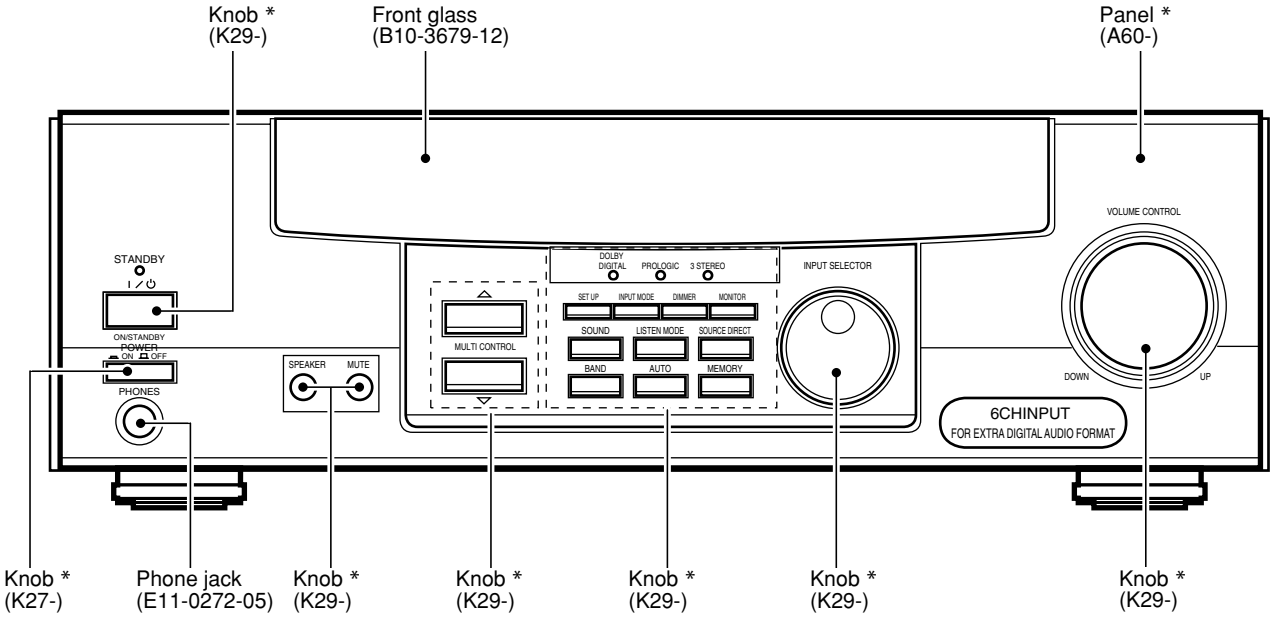

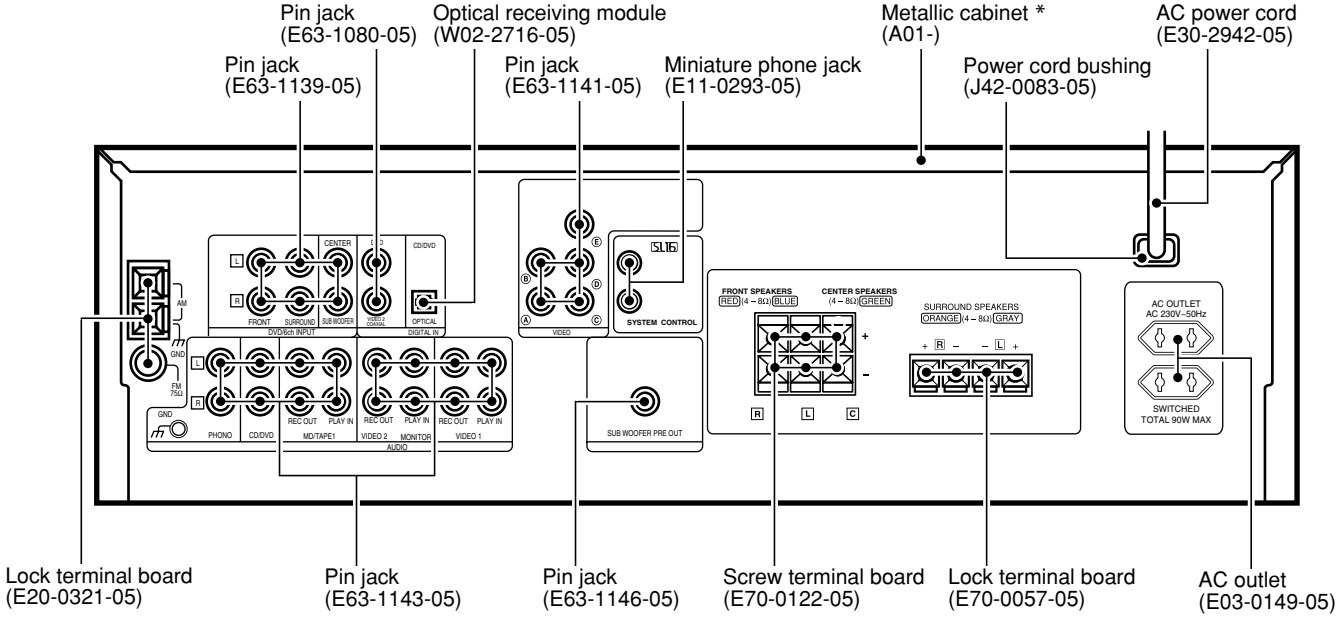

70%

*** Refer to parts list on page 24.**

KRF-V4550D/V4550DE/V4550D-S

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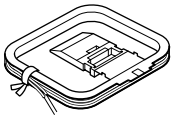
Please refer to KRF-V4530D(B51-5597-00) on microprocessor MN101C35DRA4(same function as MN101C35DRA)

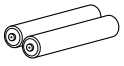
Accessories

FM indoor antenna (1)
(T90-0877-05)

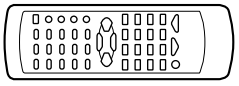
AM loop antenna (1)
(T90-0852-05)



Batteries (R6/AA) (2)



Remote control unit (1)
(A70-1470-05): RC-R0513



Battery cover (A09-1178-08)

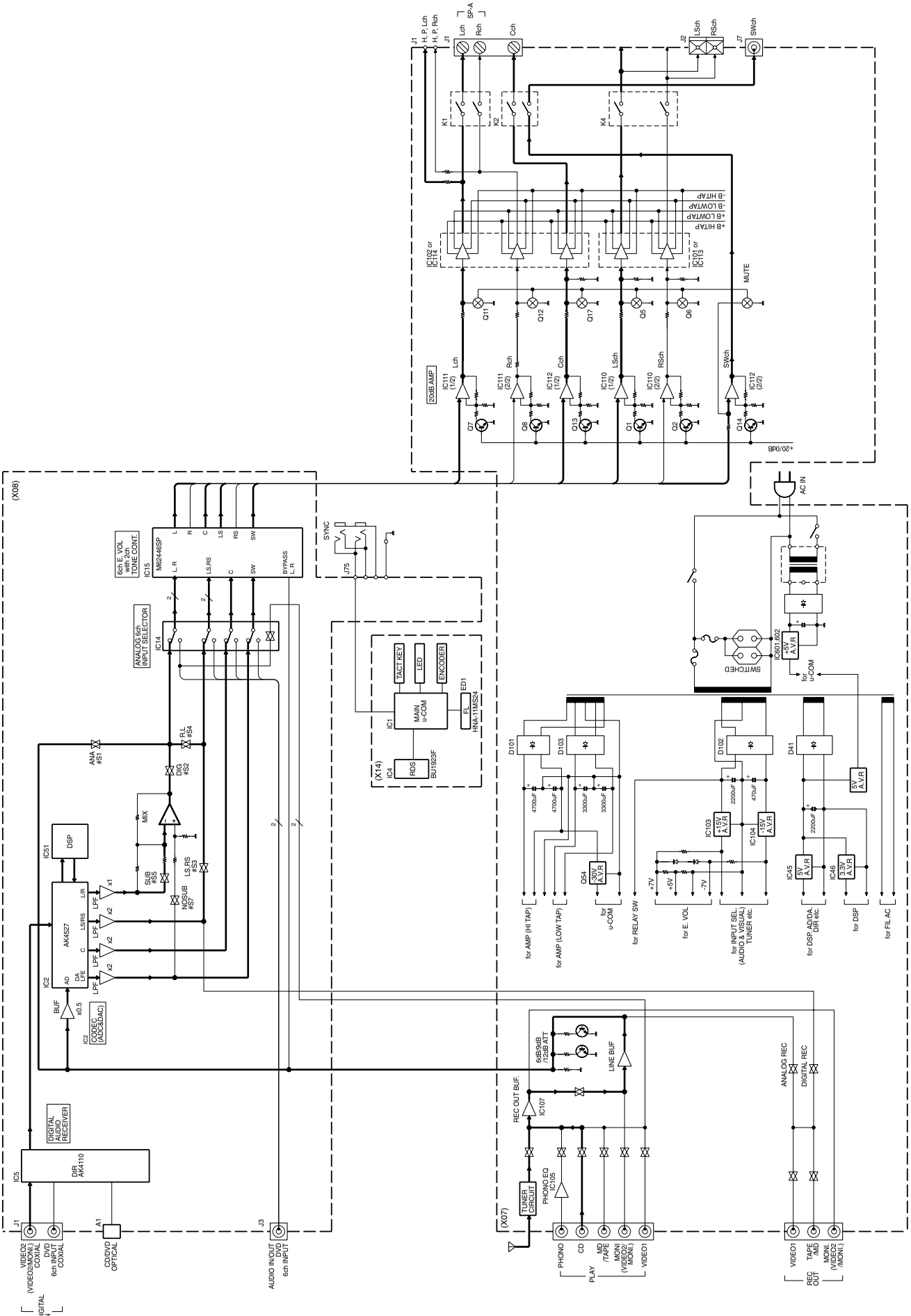
Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

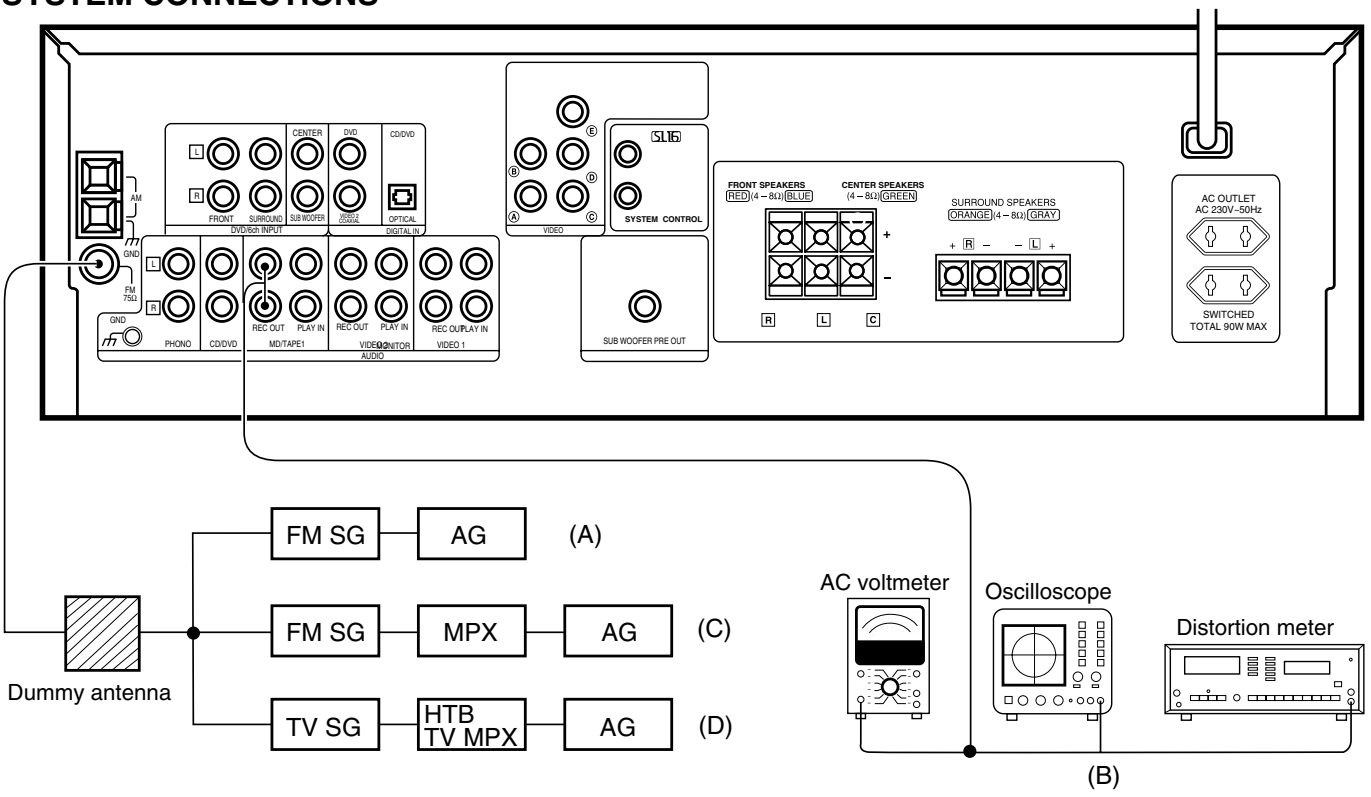
BLOCK DIAGRAM



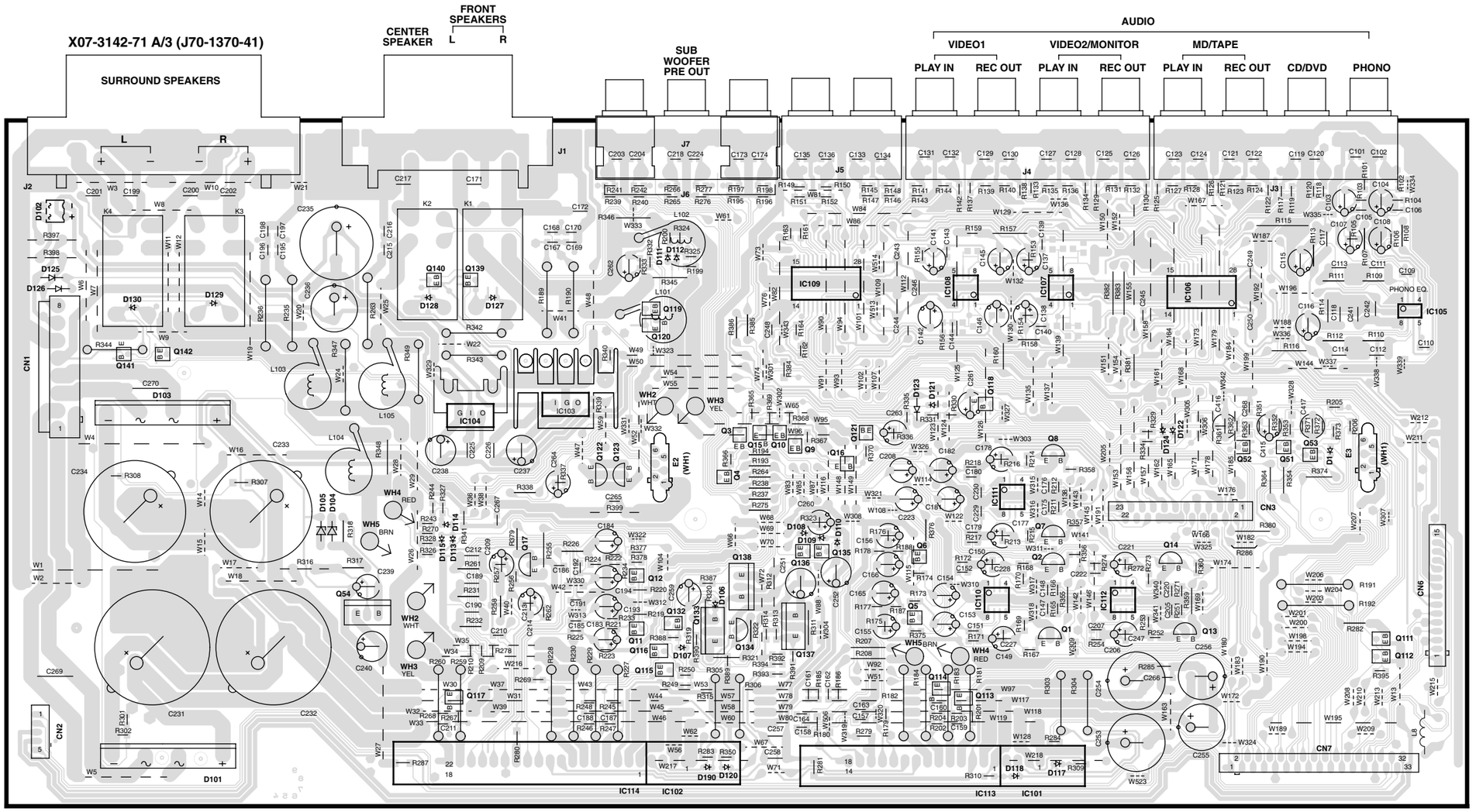
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		**SELECTOR : FM**	**※ Adjust NO.1 and NO.2 repeatedly.**				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between ① and ② of CN4 on (X07).	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

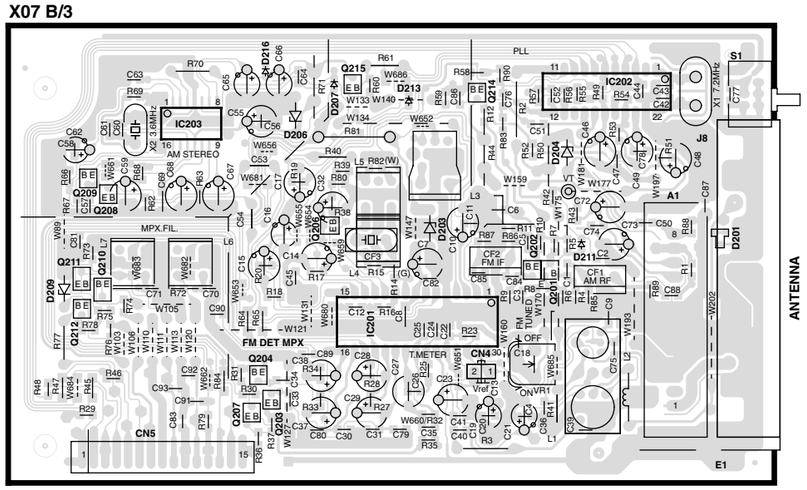
SYSTEM CONNECTIONS



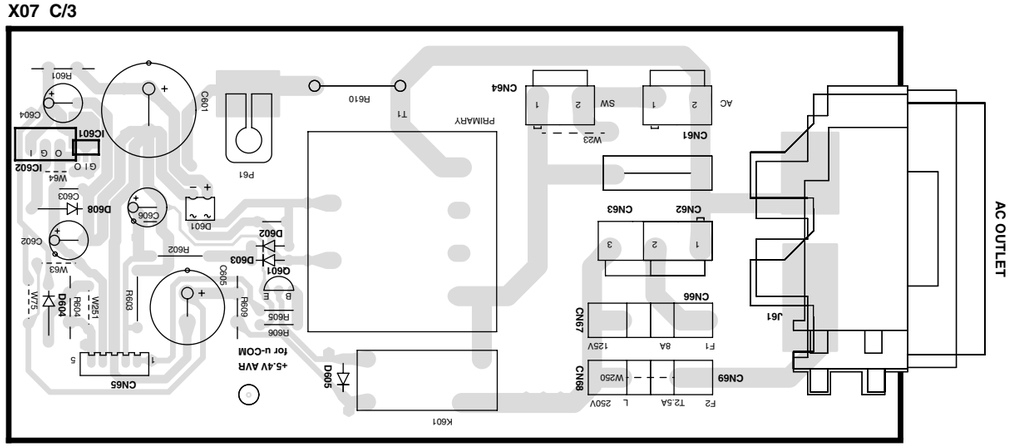
PC BOARD (Component side view)



X07 B/3



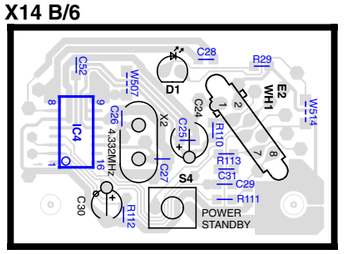
X07 C/3



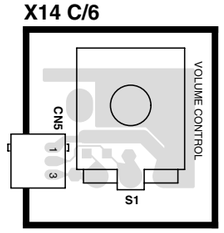
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

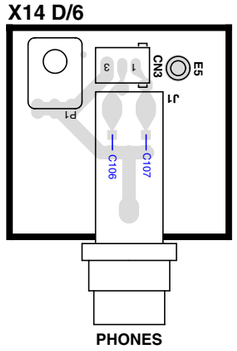
X14 B/6



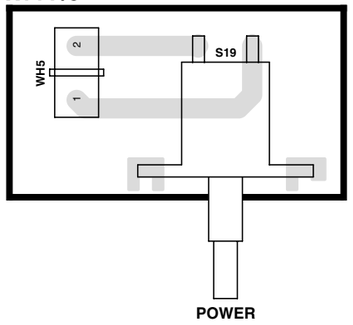
X14 C/6



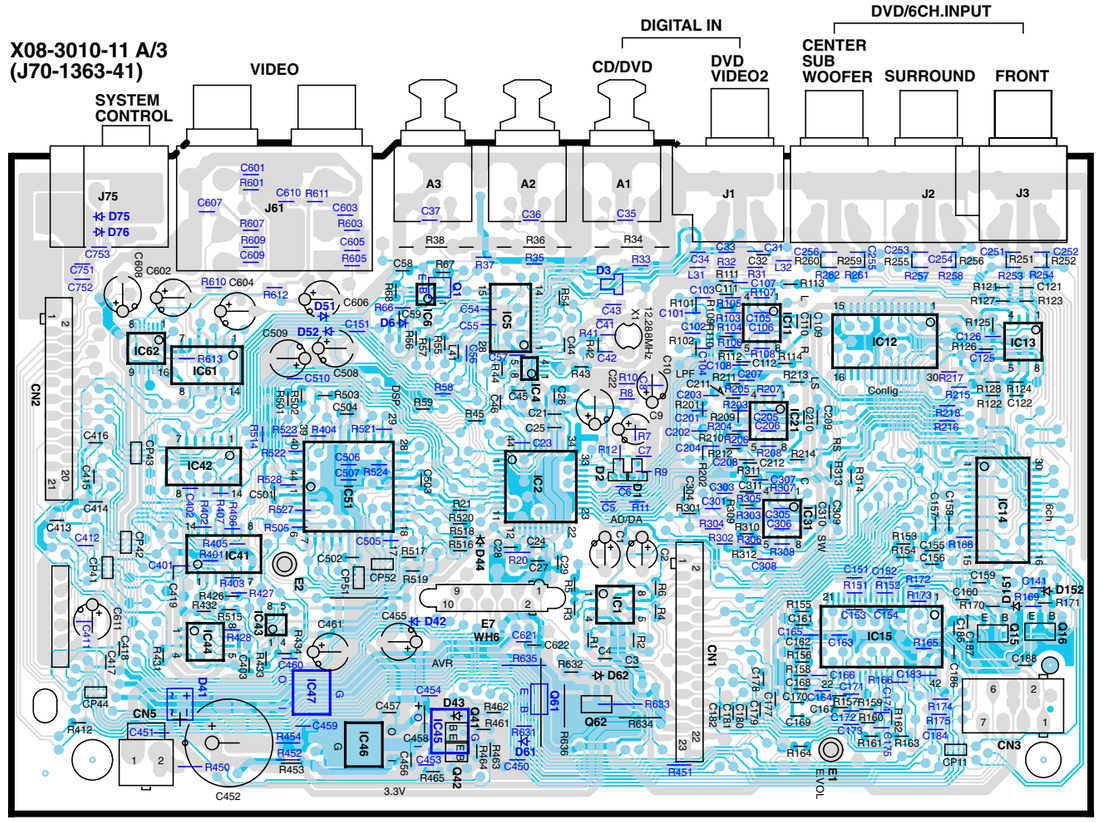
X14 D/6



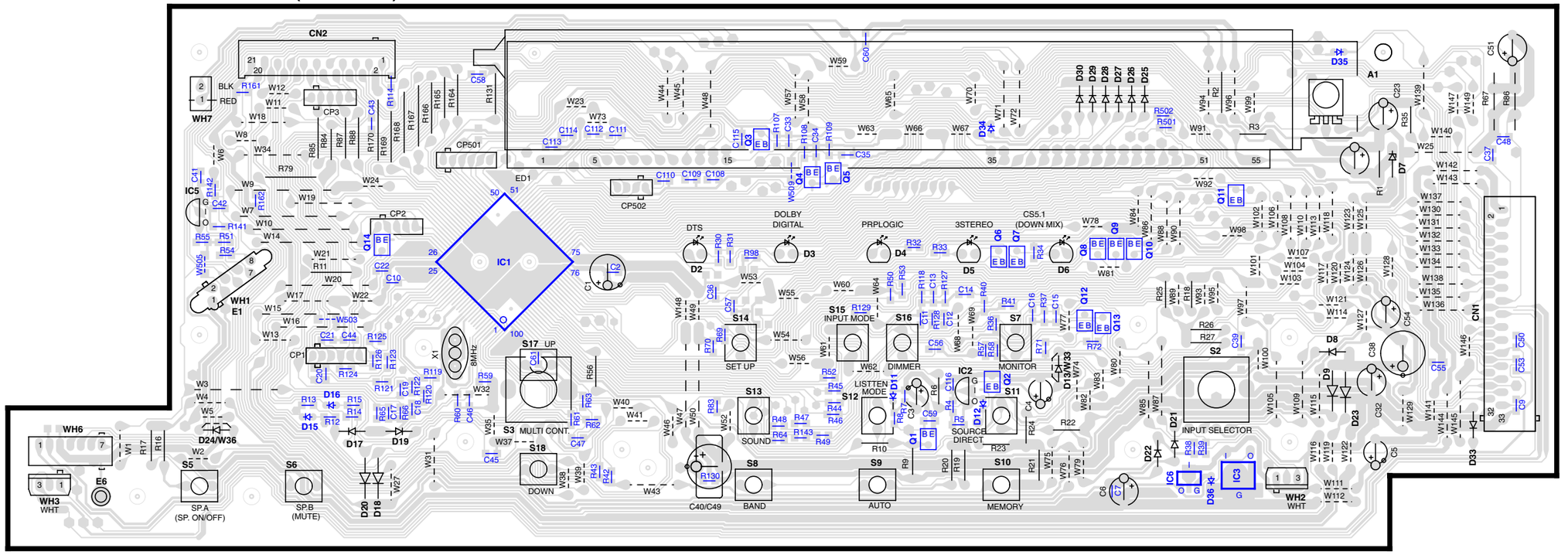
X14 F/6



X08-3010-11 A/3
(J70-1363-41)



X14-7122-73 A/6 (J70-1409-31)



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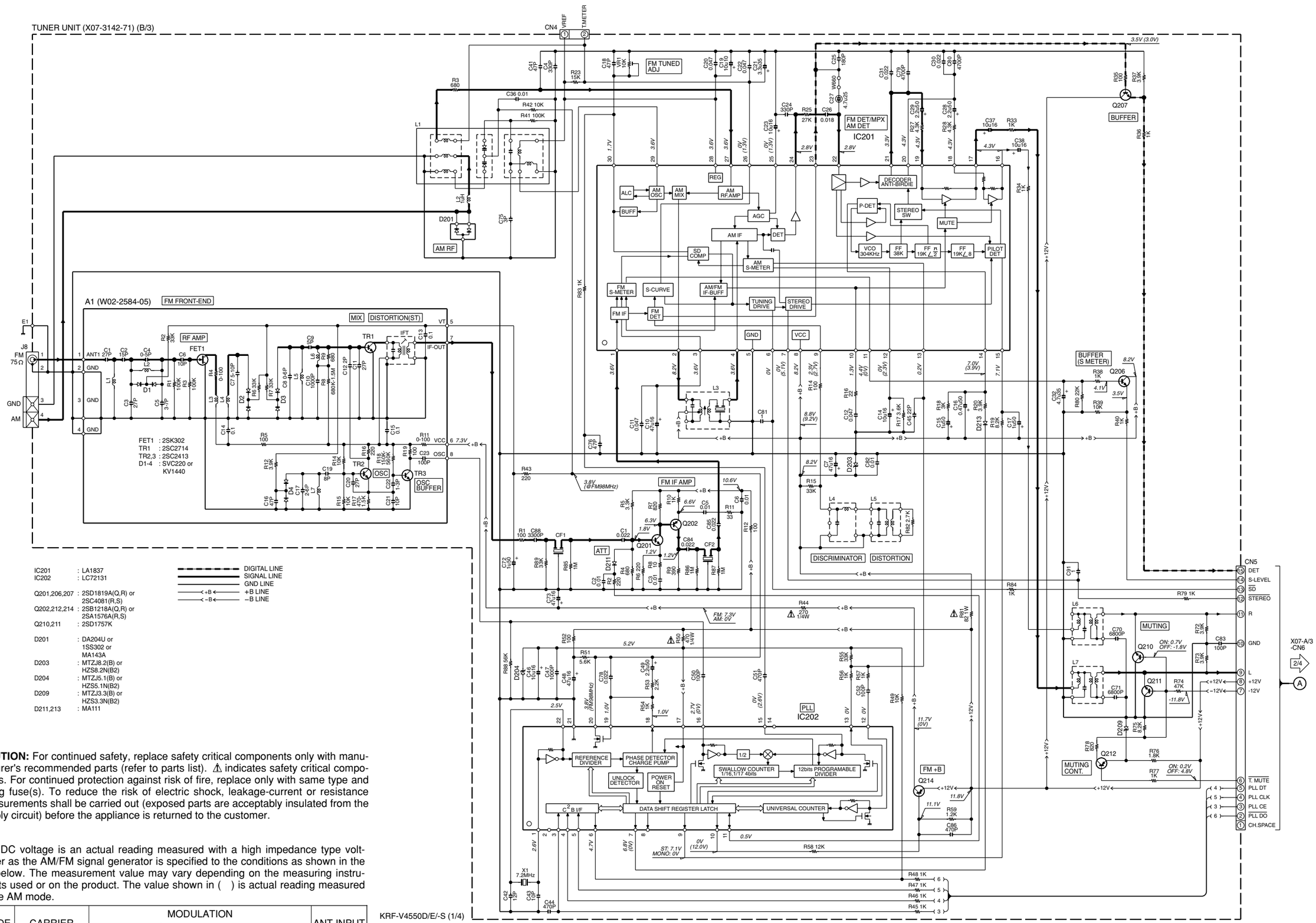
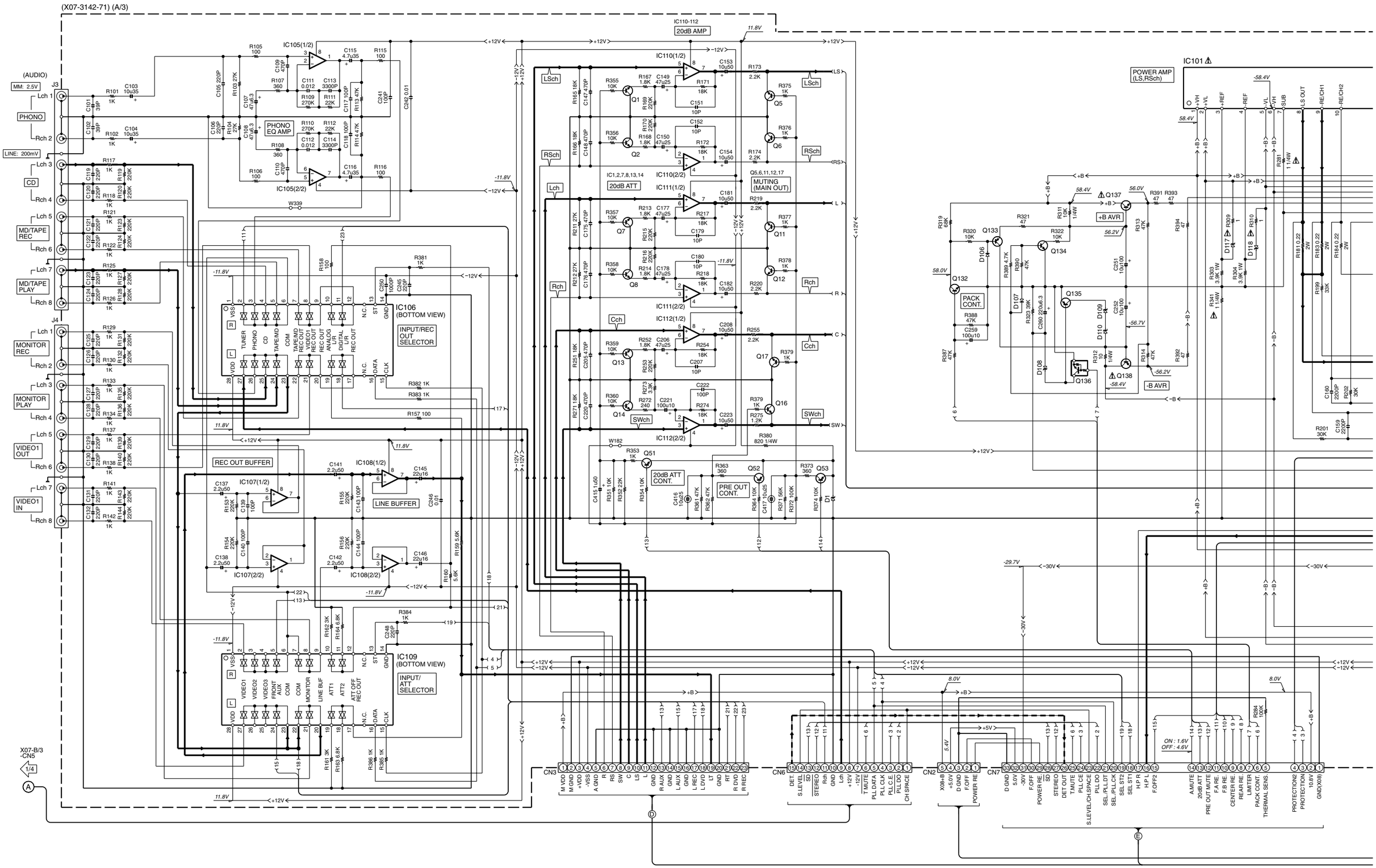


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

KRF-V4550D/E/-S (1/4)



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The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

(X07-3142-71) (A/3)

POWER AMP (FL,FR,Cch)

IC102 ⚠

SP.A ON/OFF SW

Cch/SW ON/OFF SW

LS/RSch ON/OFF SW

PROTECTION 1

PROTECTION 2

-30V AVR

+12V AVR

-12V AVR

POWER TRANSFORMER

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X07-) (A/3)

IC101	: STK412-010A	IC106,109	: NJU7313AM	Q1,2,7,8,13,14	: 2SC2785(F,E) or 2SC1740S(Q,R)	Q54,138	: 2SB1640	Q137	: 2SD2395	D102	: S1ZB20 (4101)	D106,107,111-115,121,127,128,130	: MA111	D117-120	: UDZ15B or HZU15(B2)
IC102	: STK413-010A	IC107,108,110-112	: NJM4565M or NJM4565MD or NJM4580ED or NJM4580E	Q5,6,11,12,16	: 2SD2351	Q113-117,119,120,132	: 2SC3906K	Q139,140,142	: DTC123JUA	D103	: RBV-602LFA	D108	: UDZ5.6B	D122,124	: UDZ3.9B or HZU3.9(B2)
IC103	: KIA7812API			Q17	: 2SC2878(B)	Q122,123,134	: 2SC1845(F,E)	D1	: UDZ3.3B or HZU3.3(B2)	D104	: MTZJ16(B) or HZS16N(B2)	D109	: UDZ11B	D123	: 1SS133 or HSS104A
IC104	: KIA7912PI			Q51-53,118,121,135	: 2SA1576A(R,S) or 2SB1218A(Q,R)	Q133	: 2SB1566	D101	: D5SBA20F03	D105	: MTZJ15(B) or HZS15N(B2)	D110	: UDZ10B or HZU10(B2)		
IC105	: NJM4580ED					Q136	: UN5219 or DTC113ZUA								

(X07-) (C/3)

IC602 : BA05T

Q601 : 2SC1740S(Q,R) or 2SC2785(F,E)

D601 : S1ZB20(4101)
D602-605 : 1SS133 or HSS104A
D608 : RB721Q

KRF-V4550D/E/-S (2/4)

KRF-V4550D/V4550DE/V4550D-S

Y05-4332-70

KENWOOD

(X08-3010-10) (A/3)

DVD 6ch INPUT
Lch 1
Rch 2
LSch 3
RSch 4
Cch 5
SWch 6
C ch
S.W ch
J2
R251 15K
R252 15K
R253 22K
R254 22K
R255 10K
R256 10K
R257 22K
R258 22K
R259 10K
R260 10K
R261 22K
R262 22K
C251 220P
C252 220P
C253 220P
C254 220P
C255 220P
C256 220P

INVERTER
IC4
C45 0.01
R44 220
R45 220
R43 220
R41 1M
R42 1M
C43 1000P
C46 22P
X51 12.288MHz
C41 22P
C42 27P
R67 10K
IC6
RESET
Q1
C59 0.01
D6
C58 0.01
R66 100K
R68 220
DIGITAL SIGNAL IC

DIGITAL AUDIO RECEIVER
IC5
C900 330u6.3
C57
R54 9.1K
C54 22P
C55 22P
C56 1000P
R56 220
R55 220
R57 220
L41

IC51
DSP
C504 0.1
C509 47u25
R404 470
C505 470P
C507 0.01
C510 0.01
R524 33K
C508 2.2u50
R521 10K
R514 100
R522 4.7K
R523 4.7K
R500 220
R501 220
R502 220
C501 0.1
C503 0.1
R527 10K
R505 10K
R520 10K
C505 1000P
R518 4.7K
R516 10K
R515 220
R517 220
R519 220
CP52 10K
CP51 10K
C502 0.1
C511 0.01
D51
D52
AUDATA2
AUDATA1
AUDATA0
LRCLK
SCLK
MCLK
VD1
DGND1
XMT958
EMWR
EMOE
SCDIN
SCCLK
EMD7
EMD6
EMD5
EMD4
VD2
DGND2
EMD3
EMD2
EMD1
EMD0
SCLKN2
SDATAN2
LRCLKN1
SCLKN1
DGND3
VD3
SDATAN1
EXTMEM
INTREQ
SCDOUT
CS

IC2
CODEC (ADC & DAC)
SDOS
I2C
SMUTE
BICK
LRCK
SDTI1
SDTI2
SDTI3
SDTO
DAUX
DFS
DZF2
RIN+
RIN-
LIN+
LIN-
ROUT1
LOUT1
ROUT2
LOUT2
ROUT3
LOUT3
R21 220
C23 1000P
C25 0.1
C26 0.1
C21 0.1
C22 10u50
R7 4.7K
R8 4.7K
R9 4.7K
R10 4.7K
R11 470
R12 470
C6 2200P
C8 0.1
C10 4.7u16
C5 2200P
C7 0.1
C9 4.7u16
D2
D1
C29 0.01
C24 0.1
C27 47
R20 4.7 1/4W

J1
DVD 1
VIDEO 2
COAX. INPUT
L31
L32
C32 4700P
C34 4700P
C31 22P
C33 22P
R31 82
R32 82
OPT. INPUT
CD/DVD
A1
R34 4.7 1/4W
C35 1
R33 470
C36 1

J61
VIDEO2 IN
VIDEO1 OUT
MONITOR OUT
DVD IN
VIDEO1 IN
C603 47P
C604 47u25
R603 82
R612 68
C610 47P
R611 100K
C609 47P
R609 100K
R610 68
C608 47u25
C607 47P
R607 82
C601 47P
R601 82
C602 47u25
R602 82
IC61
VIDEO INPUT SELECTOR
6dB AMP
75K DRIVER
5.3dB
4.45K
4.1K
20K
R613
to TRANS
2/4
C
D
X07-A/3 -CN3

+5V AVR
Q61
R633 100
R631 680
C450 0.01
D61
D62
R632 680
Q62
R634 100
-5V AVR
C621 0.1
C622 0.1

IC12
LS
R121 10K
R217 5.6K
R215 4.7K
R218 5.6K
CONFIG.2
CONFIGURATION SELECTOR
IC1 (1/2)
IC1 (2/2)
IC11 (1/2)
IC11 (2/2)
R1 5.6K
R2 5.6K
R3 100
R4 100
R111 4.7K
R109 10K
R110 10K
R112 4.7K
C105 1800P
C106 1800P
R113 220
R114 220
C109 0.01
C110 100P
C4 100P
C3 0.01
R5 470
R6 470
IC11,21,31
L.P.F
BUFFER
C1 10u16
C2 10u16
C107 2200P
C108 2200P
R107 2K
R108 2K
R101 2K
R102 2K
R103 100K
R104 100K
C103 0.1
C104 0.1
R405 470
R403 470
R426 220
R427 220
IC41
LEVEL SHIFTER (5V-3.3V)
R407 47K
C403 0.01
R406 470

(X08-3010-10) (A/3)

IC14 ANALOG 6ch INPUT SELECTOR

IC15 ELECTRIC VOL/ TONE

IC13 (1/2) (2/2) IC14 IC21 (1/2) (2/2) IC31 (1/2) (2/2) IC42 LEVEL SHIFTER (3.3V-5V)

IC47 +2.5V AVR IC46 +3.3V AVR IC45 +5.0V AVR

Q15 Q16 +7.0V AVR -7.0V AVR

PROTECTION Q42 Q41

SYSTEM CONTROL J75

CN1 CN2 CN5

X14-A/6 -CN2 4/4

KRF-V4550D/E/-S (3/4)

IC1,11,13,21,31 : NJM4565MD
IC2 : AK4527-VO
IC4 : TC7WU04FU
IC5 : AK4110-VF
IC6 : TC7WH123FU
IC12,14 : NJU7311AM
IC15 : M62446FP
IC41 : TC74HC07AF
IC42 : TC74HCT7007AF
IC45 : TA48M05F
IC46 : TA48M033F
IC47 : TA48M025F
IC51 : CS493253-CLR or CS493263-CLR
IC61 : NJM2279M

Q1 : DTC124EUA or UN5212
Q15,61 : 2SD1664(Q,R)
Q16,62 : 2SB1132(Q,R)
Q41 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q42 : 2SA1576A(R,S) or 2SB1218A(Q,R)

D1,3 : 1SS301 or DAN202U or MA142WK
D2 : 1SS300 or DAP202U or MA142WA
D6,51,52,75,76 : MA111
D41 : S1ZB20(4072)
D42,43,61,62 : UDZ5.6B or HZU5.6(B2)
D44 : UDZ3.9B or HZU3.9(B2)
D151,152 : UDZ7.5B or HZU7.5(B2)

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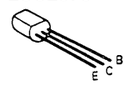
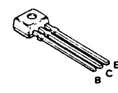
2SC1845 2SC2878



2SD2395

2SC2785



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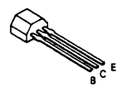
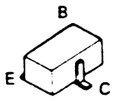
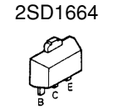


UN5219 2SA1576A 2SB1218A



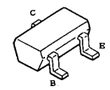
2SD1819A

2SB1132

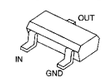


2SD1664

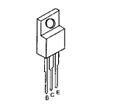
2SC4081 2SD1757K



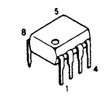
DTA124EUA DTC123JUA DTC124EUA



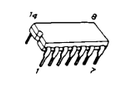
2SB1566



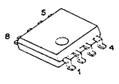
NJM4580E



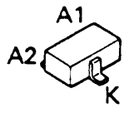
TC74HC07AF



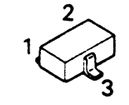
NJM4565M NJM4565MD NJM4580ED



DAN202U



DAP202U DA204U 2SC3906K



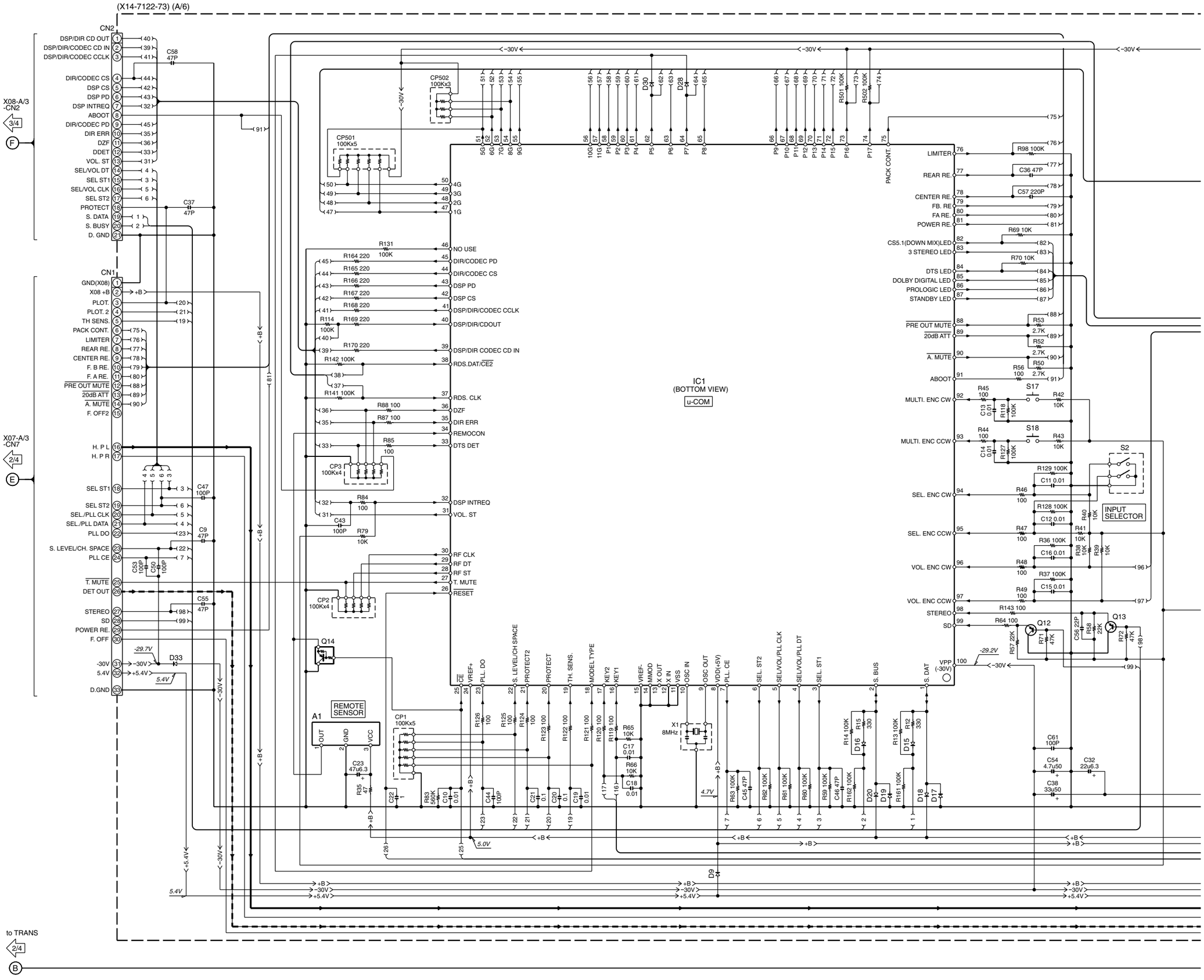
Y05-4332-70

KRF-V4550D/V4550DE/V4550D-S

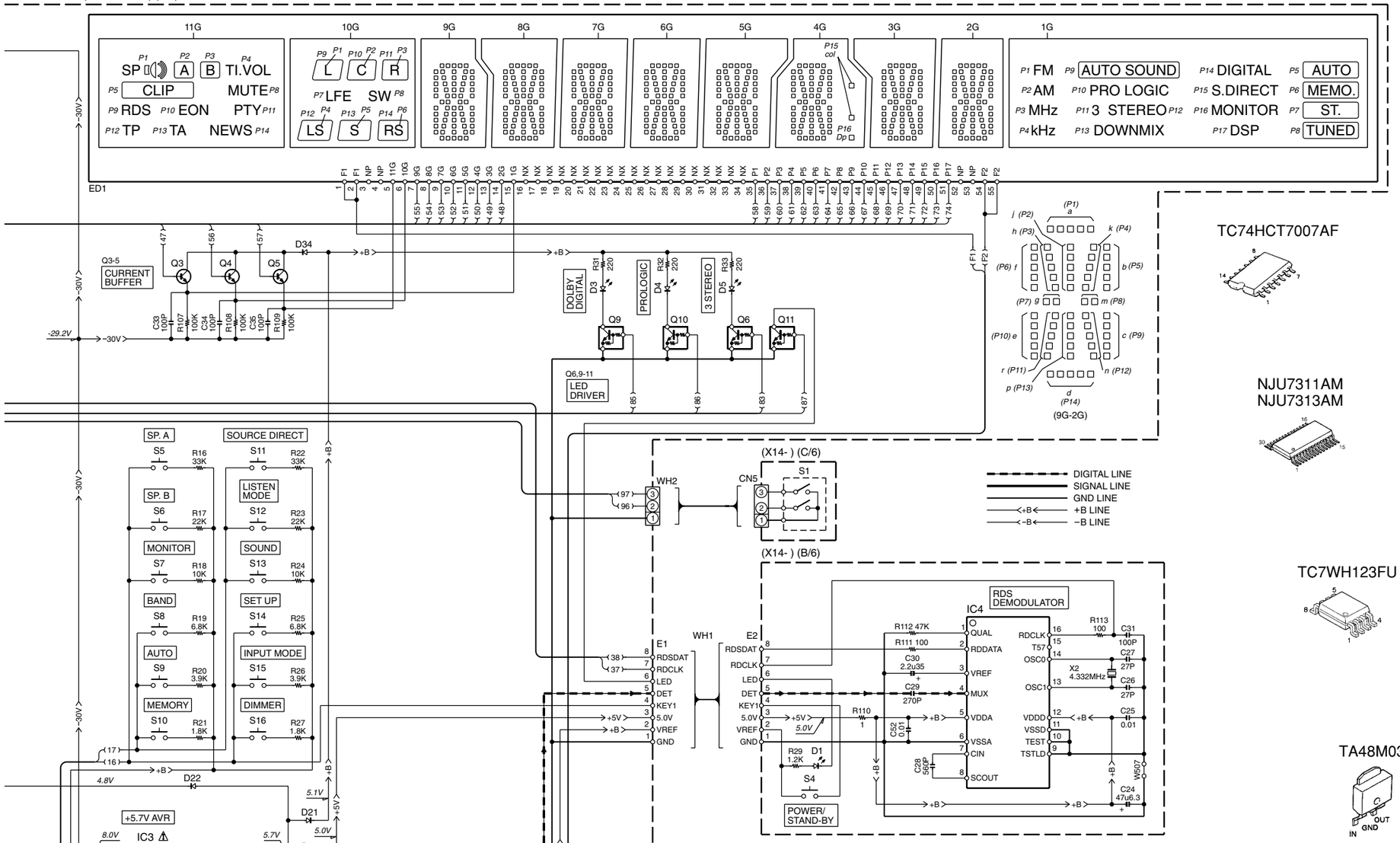
KENWOOD

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



(X14-7122-73) (A/6)



IC1 : MN101C35DRA4
IC2,5 : S-80840ANY
IC3 : TA78057F
IC4 : BU1923F

Q1,3-5 : 2SC4081(R,S)
Q2,12,13 : 2SA1576A(R,S)
Q6,9-11 : UN5219 or DTC113ZUA
Q14 : UN5112 or DTA124EUA

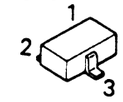
D1 : B30-2567-05
D3-5 : B30-2545-05
D7 : MTZJ6.2(B) or HZS6.2N(B2)
D8,9 : RB721Q
D11,12,15,16,34 : MA111
D17-22,24,28,30,33 : 1SS133 or HSS104A

A1 : W02-2625-05

ED1 : HNA-11MS24 or 11-MT-125GK

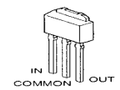
KRF-V4550D/E/-S (4/4)

MA142WA
MA142WK
UN5212



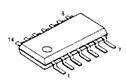
1SS301

TA48M025F
TA48M05F

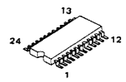


TC74HCT7007AF

NJM2279M



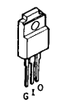
2SD2351



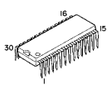
LC72131

NJU7311AM
NJU7313AM

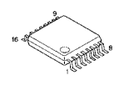
KIA7912PI



LA1837

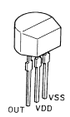


BU1923F

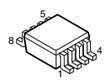


TC7WH123FU

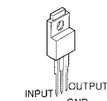
S-80840ANY



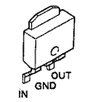
TC7WU04FU



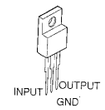
BA05T



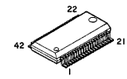
TA48M033F



KIA7812API



M62446FP

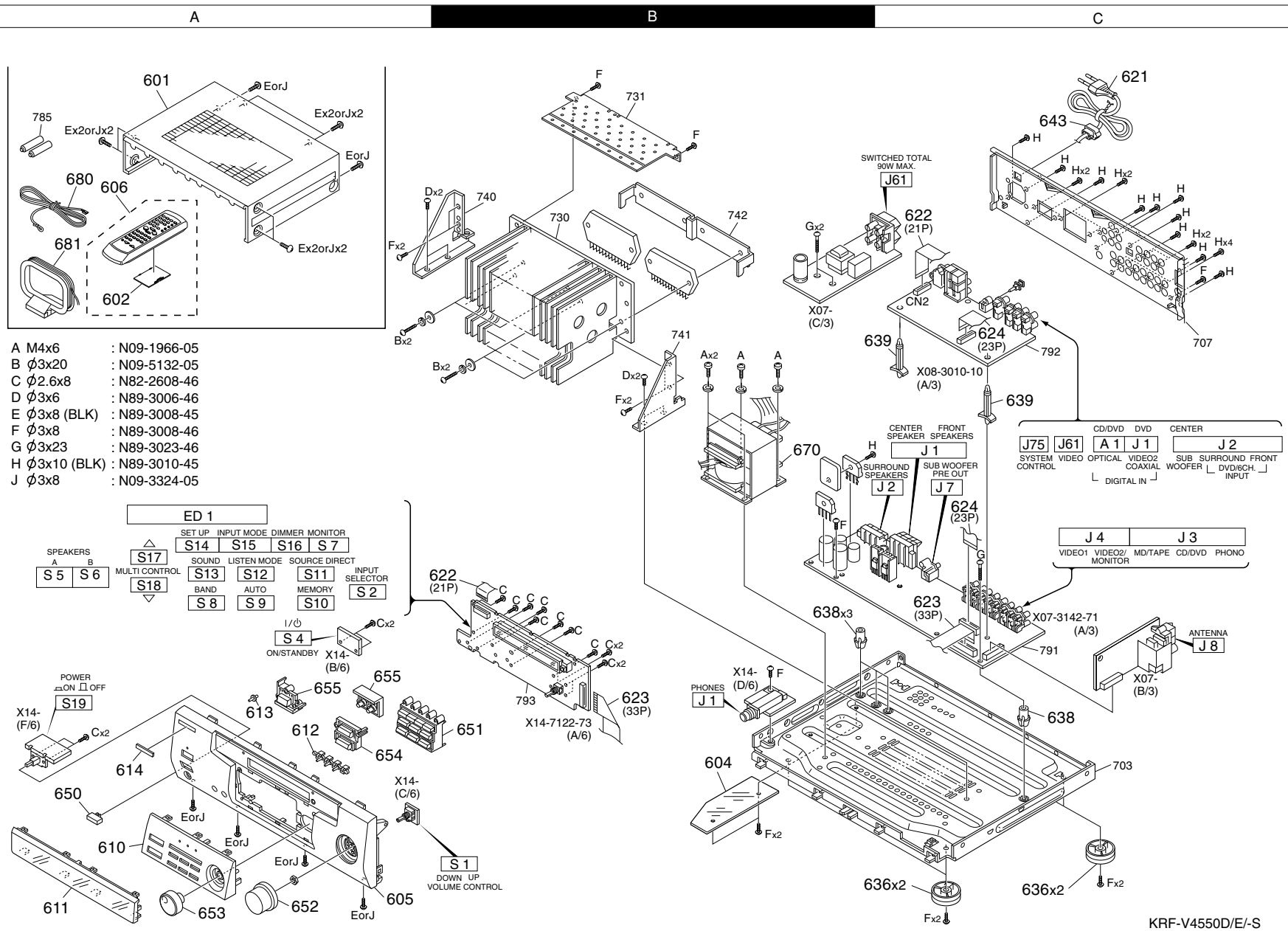


Y05-4332-70

KRF-V4550D/V4550DE/V4550D-S

KENWOOD

EXPLODED VIEW (UNIT)



KRF-V4550D/E/-S

Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-V4550D/V4550DE/V4550D-S						
601	1A		A01-3733-01	METALLIC CABINET	EE1	
601	1A		A01-3734-01	METALLIC CABINET	E2	
602	1A		A09-1178-08	BATTERY COVER		
604	2B		A46-0309-04	REAR COVER		
605	2A		A60-1760-11	PANEL	E2	
605	2A		A60-1761-11	PANEL	EE1	
606	1A	✻	A70-1470-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2477-02	ESCUTCHEON	EE1	
610	2A		B07-2478-02	ESCUTCHEON	E2	
611	2A	✻	B10-3679-12	FRONT GLASS		
612	2A		B12-0384-04	INDICATOR		
613	2A		B12-0385-04	INDICATOR		
614	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0966-13	CAUTION CARD (ELMtypePL)	EE2	
-			B58-1607-03	CAUTION CARD	E1	
-		✻	B60-4964-00	INSTRUCTION MANUAL (FR/GE)	EE2	
-		✻	B60-4965-00	INSTRUCTION MANUAL (NE/IT)	EE2	
-		✻	B60-4966-00	INSTRUCTION MANUAL (ES)	EE2	
-		✻	B60-4967-00	INSTRUCTION MANUAL (EN)	E1	
-		✻	B60-4968-00	INSTRUCTION MANUAL (PL/RU)	E1	
-		✻	B60-4969-00	INSTRUCTION MANUAL (CZ/HU)	E1	
⚠ 621	1C		E30-2942-05	AC POWER CORD		
622	1C,2B		E35-2627-05	FLAT CABLE (21P)		
623	2B,2C		E35-2456-05	FLAT CABLE (33P)		
624	1C,2C		E35-2480-05	FLAT CABLE (23P)		
-			G10-0536-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-			G11-2775-04	CUSHION		
-			H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-4044-04	ITEM CARTON CASE	E	
-		✻	H50-4045-04	ITEM CARTON CASE	E1	
-		✻	H50-4046-04	ITEM CARTON CASE	E2	
636	2C		J02-1464-03	FOOT		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C		J19-6078-05	UNIT HOLDER		
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A		K27-2384-04	KNOB (BUTTON)	EE1	
650	2A		K27-2385-04	KNOB (BUTTON)	E2	
651	2B		K29-7675-22	KNOB	EE1	
651	2B		K29-7676-22	KNOB	E2	
652			K29-7678-04	KNOB	EE1	
652	2A		K29-7679-04	KNOB	E2	
653	2A		K29-7681-14	KNOB	EE1	
653	2A		K29-7682-14	KNOB	E2	
654	2A		K29-7684-03	KNOB	EE1	
654	2A		K29-7685-03	KNOB	E2	
655	2A		K29-7687-03	KNOB	EE1	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

✻ New Parts
Parts without **Parts No.** are not supplied.
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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
655	2A		K29-7688-03	KNOB	E2	
⚠ 670	1B		L07-2797-05	POWER TRANSFORMER		
680	1A	✻	T90-0877-05	LEAD WIRE ANTENNA		
681	1A		T90-0852-05	LOOP ANTENNA		
POWER AMPLIFIER UNIT (X07-3142-71)						
C1			CK73FB1H223K	CHIP C 0.022UF K		
C2 ,3			CK73FB1H103K	CHIP C 0.010UF K		
C4			CC73FCH1H331J	CHIP C 330PF J		
C5 ,6			CK73FB1H103K	CHIP C 0.010UF K		
C7			CE04LW1C470M	ELECTRO 47UF 16WV		
C10			CE04LW1C470M	ELECTRO 47UF 16WV		
C11 ,12			CK73FB1H473K	CHIP C 0.047UF K		
C14			CE04LW1C100M	ELECTRO 10UF 16WV		
C15			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C16			CE04RW1HR47M	ELECTRO 0.47UF 50WV		
C17			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C18			CC73FCH1H470J	CHIP C 47PF J		
C19			CE04RW1A100M	ELECTRO 10UF 10WV		
C20			CK73FB1H473K	CHIP C 0.047UF K		
C21			CE04RW1V3R3M	ELECTRO 3.3UF 35WV		
C22			CK73FB1H473K	CHIP C 0.047UF K		
C23			CE04LW1C100M	ELECTRO 10UF 16WV		
C24			CK73FB1H331K	CHIP C 330PF K		
C25			CC73FCH1H181J	CHIP C 180PF J		
C26			CK73FB1H183K	CHIP C 0.018UF K		
C27			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C28 ,29			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C30 ,31			CK73FB1H223K	CHIP C 0.022UF K		
C32			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C36			CK73FB1H103K	CHIP C 0.010UF K		
C37 ,38			CE04LW1C100M	ELECTRO 10UF 16WV		
C41			CC73FCH1H470J	CHIP C 47PF J		
C42			CC73FCH1H120J	CHIP C 12PF J		
C43			CC73FCH1H100D	CHIP C 10PF D		
C44			CK73FB1H471K	CHIP C 470PF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1C100M	ELECTRO 10UF 16WV		
C47			CK73FB1H102K	CHIP C 1000PF K		
C48			CE04LW1C470M	ELECTRO 47UF 16WV		
C49			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C50			CC73FCH1H101J	CHIP C 100PF J		
C51			CK73FB1H471K	CHIP C 470PF K		
C52			CC73FCH1H101J	CHIP C 100PF J		
C70 ,71			CK73FB1H682K	CHIP C 6800PF K		
C72			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C73			CE04LW1C470M	ELECTRO 47UF 16WV		
C75			CC73FCH1H030C	CHIP C 3.0PF C		
C76			CC73FCH1H470J	CHIP C 47PF J		
C78			CK73FB1H223K	CHIP C 0.022UF K		
C79 ,80			CK73FB1H472K	CHIP C 4700PF K		
C81			CK73FF1C105Z	CHIP C 1.0UF Z		
C82			CK73FB1H103K	CHIP C 0.010UF K		
C83			CC73FCH1H101J	CHIP C 100PF J		

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✻ New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

❸

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K		
C86			CK73FB1H471K	CHIP C	470PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
C101,102			CC73FCH1H390J	CHIP C	39PF	J		
C103,104			CE04RW1V100M	ELECTRO	10UF	35WV		
C105,106			CC73FCH1H221J	CHIP C	220PF	J		
C107,108			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C109,110			CC73FCH1H471J	CHIP C	470PF	J		
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J		
C113,114			CK45FB1H332K	CERAMIC	3300PF	K		
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C117,118			CC45FCH1H101J	CERAMIC	100PF	J		
C119-132			CC73FCH1H221J	CHIP C	220PF	J		
C137,138			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C139,140			CC73FCH1H101J	CHIP C	100PF	J		
C141,142			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C143,144			CC73FCH1H101J	CHIP C	100PF	J		
C145,146			CE04LW1C220M	ELECTRO	22UF	16WV		
C147,148			CC73FCH1H471J	CHIP C	470PF	J		
C149,150			CE04LW1E470M	ELECTRO	47UF	25WV		
C151,152			CC73FCH1H100D	CHIP C	10PF	D		
C153,154			CE04LW1H100M	ELECTRO	10UF	50WV		
C155,156			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C157,158			CC73FCH1H102J	CHIP C	1000PF	J		
C159,160			CK73FB1H222K	CHIP C	2200PF	K		
C161,162			CC73FCH1H220J	CHIP C	22PF	J		
C163,164			CC73FCH1H102J	CHIP C	1000PF	J		
C165,166			CE04LW1A101M	ELECTRO	100UF	10WV		
C167-170			CK73FF1E104Z	CHIP C	0.10UF	Z		
C171,172			CQ93FMG1H472J	MYLAR	4700PF	J		
C175,176			CC73FCH1H471J	CHIP C	470PF	J		
C177,178			CE04LW1E470M	ELECTRO	47UF	25WV		
C179,180			CC73FCH1H100D	CHIP C	10PF	D		
C181,182			CE04LW1H100M	ELECTRO	10UF	50WV		
C183,184			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C185,186			CC73FCH1H102J	CHIP C	1000PF	J		
C187,188			CK73FB1H222K	CHIP C	2200PF	K		
C189,190			CC45FCH1H220J	CERAMIC	22PF	J		
C191,192			CC73FCH1H102J	CHIP C	1000PF	J		
C193,194			CE04LW1A101M	ELECTRO	100UF	10WV		
C195-198			CK73FF1E104Z	CHIP C	0.10UF	Z		
C200,201			CQ93FMG1H472J	MYLAR	4700PF	J		
C205			CC73FCH1H471J	CHIP C	470PF	J		
C206			CE04LW1E470M	ELECTRO	47UF	25WV		
C207			CC73FCH1H100D	CHIP C	10PF	D		
C208			CE04LW1H100M	ELECTRO	10UF	50WV		
C209			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C210			CC73FCH1H102J	CHIP C	1000PF	J		
C211			CK73FB1H222K	CHIP C	2200PF	K		
C212			CC45FCH1H220J	CERAMIC	22PF	J		
C213			CC73FCH1H102J	CHIP C	1000PF	J		
C214			CE04LW1A101M	ELECTRO	100UF	10WV		
C215,216			CK73FF1E104Z	CHIP C	0.10UF	Z		
C217			CQ93FMG1H472J	MYLAR	4700PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C220			CC73FCH1H471J	CHIP C	470PF	J		
C221			CE04LW1A101M	ELECTRO	100UF	10WV		
C222			CC73FCH1H101J	CHIP C	100PF	J		
C223			CE04LW1H100M	ELECTRO	10UF	50WV		
C224			CC73FCH1H221J	CHIP C	220PF	J		
C225,226			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C231,232			C90-3918-05	ELECTRO	4700UF	63WV		
C233,234			C90-3919-05	ELECTRO	3300UF	35WV		
C235			CE04LW1E222M	ELECTRO	2200UF	25WV		
C236			CE04LW1E471M	ELECTRO	470UF	25WV		
C237,238			CE04LW1C101M	ELECTRO	100UF	16WV		
C239			CE04LW1H220M	ELECTRO	22UF	50WV		
C240			CE04LW1V470M	ELECTRO	47UF	35WV		
C241			CC45FCH1H101J	CERAMIC	100PF	J		
C242			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C245			CC73FCH1H221J	CHIP C	220PF	J		
C246			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C248			CC73FCH1H221J	CHIP C	220PF	J		
C250			CC73FCH1H102J	CHIP C	1000PF	J		
C251,252			CE04LW2A100M	ELECTRO	10UF	100WV		
C253,254			CE04LW2A101M	ELECTRO	100UF	100WV		
C255,256			CE04DW1J101M	ELECTRO	100UF	63WV		
C259			CE04LW1A101M	ELECTRO	100UF	10WV		
C260			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C261			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C262			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C263			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C264			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C415			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C416,417			CE04HW1E100M	NP-ELEC	10UF	25WV		
C601			CE04LW1E332M	ELECTRO	3300UF	25WV		
C602			CE04LW1H100M	ELECTRO	10UF	50WV		
C603			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C604			CE04LW1H100M	ELECTRO	10UF	50WV		
C606			CK73FB1E104K	CHIP C	0.10UF	K		
CN1			E40-8364-05	PIN ASSY				
CN2			E40-8197-05	SOCKET FOR PIN ASSY				
CN3			E40-8485-05	FLAT CABLE CONNECTOR				
CN4			E40-4871-05	PIN ASSY				
CN5			E40-9831-05	SOCKET FOR PIN ASSY				
CN6			E40-9848-05	PIN ASSY				
CN7			E40-8490-05	FLAT CABLE CONNECTOR				
CN61,62			E40-4245-05	PIN ASSY				
CN64			E40-4245-05	PIN ASSY				
CN65			E40-8196-05	PIN ASSY				
J1			E70-0122-05	LOCK TERMINAL BOARD				
J2			E70-0057-05	LOCK TERMINAL BOARD				
J3 ,4			E63-1143-05	PIN JACK				
J7			E63-1146-05	PIN JACK				
J8			E20-0321-05	LOCK TERMINAL BOARD(2P,F)				
J8			E70-0052-05	LOCK TERMINAL BOARD				
⚠ J61			E03-0149-05	AC OUTLET				
E1			F10-1167-04	SHIELDING PLATE				
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			

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⚠ F2			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)					
CN66-69			J13-0075-05	FUSE CLIP					
CF1 ,2			L72-0536-05	CERAMIC FILTER					
L1			L39-1384-05	COMBINATION COIL					
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)					
L3			L30-0911-05	AM IFT					
L4			L30-0950-05	FM IFT					
L5			L30-0951-05	FM IFT					
L6 ,7			L79-1236-05	LC FILTER					
L8			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)					
L101-105			L39-1373-05	PHASE COMPENSATION COIL					
⚠ T1			L07-2758-05	POWER TRANSFORMER					
⚠ T1			L07-2761-05	POWER TRANSFORMER					
X1			L77-2232-05	CRYSTAL RESONATOR					
R1			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A681J	CHIP R	680	J	1/10W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73FB2A221J	CHIP R	220	J	1/10W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		
R8			RK73FB2A100J	CHIP R	10	J	1/10W		
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73FB2A220J	CHIP R	22	J	1/10W		
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W		
R15			RK73FB2A333J	CHIP R	33K	J	1/10W		
R16			RK73FB2A220J	CHIP R	22	J	1/10W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R19			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R20			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R23			RK73FB2A153J	CHIP R	15K	J	1/10W		
R25			RK73FB2A273J	CHIP R	27K	J	1/10W		
R27 ,28			RK73FB2A432J	CHIP R	4.3K	J	1/10W		
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R35			RK73FB2A101J	CHIP R	100	J	1/10W		
R36			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R37			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R38			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R39			RK73FB2A103J	CHIP R	10K	J	1/10W		
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R52			RK73FB2A101J	CHIP R	100	J	1/10W		
R53			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R55			RK73FB2A333J	CHIP R	33K	J	1/10W		
R56 ,57			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72 ,73			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R74			RK73FB2A473J	CHIP R	47K	J	1/10W		
R75			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R76			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R78			RK73FB2A821J	CHIP R	820	J	1/10W		
R79			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R80			RK73FB2A223J	CHIP R	22K	J	1/10W		
⚠ R81			RS14KB3A820J	FL-PROOF RS	82	J	1W		
R82			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
R89			RK73FB2A333J	CHIP R	33K	J	1/10W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W		
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W		
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R119,120			RK73FB2A224J	CHIP R	220K	J	1/10W		
R121,122			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R123,124			RK73FB2A224J	CHIP R	220K	J	1/10W		
R125,126			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R127,128			RK73FB2A224J	CHIP R	220K	J	1/10W		
R129,130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R131,132			RK73FB2A224J	CHIP R	220K	J	1/10W		
R133,134			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R135,136			RK73FB2A224J	CHIP R	220K	J	1/10W		
R137,138			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R139,140			RK73FB2A224J	CHIP R	220K	J	1/10W		
R141,142			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R143,144			RK73FB2A224J	CHIP R	220K	J	1/10W		
R153-156			RK73FB2A224J	CHIP R	220K	J	1/10W		
R159			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R161,162			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R163,164			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R165,166			RK73FB2A183J	CHIP R	18K	J	1/10W		
R167,168			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R169,170			RK73FB2A224J	CHIP R	220K	J	1/10W		
R171,172			RK73FB2A183J	CHIP R	18K	J	1/10W		
R173,174			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R175,176			RK73FB2A104J	CHIP R	100K	J	1/10W		
R177,178			RK73FB2A563J	CHIP R	56K	J	1/10W		
R179			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R180			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R181-184			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R185,186			RK73FB2A563J	CHIP R	56K	J	1/10W		
R187,188			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R189,190			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R191,192			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R199,200			RK73FB2A333J	CHIP R	33K	J	1/10W		
R201,202			RK73FB2A303J	CHIP R	30K	J	1/10W		

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R203,204			RK73FB2A113J	CHIP R	11K	J	1/10W		
R205,206			RK73FB2A471J	CHIP R	470	J	1/10W		
R209,210			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R211,212			RK73FB2A273J	CHIP R	27K	J	1/10W		
R213,214			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R215,216			RK73FB2A224J	CHIP R	220K	J	1/10W		
R217,218			RK73FB2A183J	CHIP R	18K	J	1/10W		
R219,220			RK73EB2B222J	CHIP R	2.2K	J	1/8W		
R221,222			RK73FB2A104J	CHIP R	100K	J	1/10W		
R223,224			RK73FB2A563J	CHIP R	56K	J	1/10W		
R225			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R227-230			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R233,234			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R235,236			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R243,244			RK73FB2A333J	CHIP R	33K	J	1/10W		
R245,246			RK73FB2A303J	CHIP R	30K	J	1/10W		
R247,248			RK73FB2A113J	CHIP R	11K	J	1/10W		
R249,250			RK73FB2A471J	CHIP R	470	J	1/10W		
R251			RK73FB2A183J	CHIP R	18K	J	1/10W		
R252			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R253			RK73FB2A224J	CHIP R	220K	J	1/10W		
R254			RK73FB2A183J	CHIP R	18K	J	1/10W		
R256			RK73FB2A104J	CHIP R	100K	J	1/10W		
R257			RK73FB2A563J	CHIP R	56K	J	1/10W		
R259,260			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R262			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R263			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R267			RK73FB2A303J	CHIP R	30K	J	1/10W		
R268			RK73FB2A113J	CHIP R	11K	J	1/10W		
R269			RK73FB2A471J	CHIP R	470	J	1/10W		
R270			RK73FB2A333J	CHIP R	33K	J	1/10W		
R271			RK73FB2A183J	CHIP R	18K	J	1/10W		
R272			RK73FB2A241J	CHIP R	240	J	1/10W		
R273			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R274			RK73FB2A183J	CHIP R	18K	J	1/10W		
R276			RK73FB2A224J	CHIP R	220K	J	1/10W		
R277			RK73FB2A331J	CHIP R	330	J	1/10W		
R278			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R279,280		✻	R92-1956-05	METAL GLAZE	33K	J	1/4W		
⚠ R281			R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R283			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R284			RK73FB2A104J	CHIP R	100K	J	1/10W		
R285			R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R287			RK73EB2B101J	CHIP R	100	J	1/8W		
R301,302			RK73FB2A513J	CHIP R	51K	J	1/10W		
R303-306			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W		
R307			RK73EB2B273J	CHIP R	27K	J	1/8W		
R308			RK73FB2A273J	CHIP R	27K	J	1/10W		
⚠ R309,310			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R312			RD14NB2E103J	RD	10K	J	1/4W		
R313,314			RK73FB2A473J	CHIP R	47K	J	1/10W		
⚠ R315			RK73FB2A1R0J	CHIP R	1	J	1/10W		
⚠ R316			RD14NB2E101J	RD	100	J	1/4W		
R320			RK73FB2A103J	CHIP R	10K	J	1/10W		
R323			RK73FB2A393J	CHIP R	39K	J	1/10W		

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R324,325			RK73FB2A104J	CHIP R	100K	J	1/10W		
R326-328			RK73FB2A473J	CHIP R	47K	J	1/10W		
R329			RK73FB2A123J	CHIP R	12K	J	1/10W		
R330			RK73FB2A153J	CHIP R	15K	J	1/10W		
R331			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R332			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R333			RK73FB2A223J	CHIP R	22K	J	1/10W		
R334			RK73FB2A123J	CHIP R	12K	J	1/10W		
R335			RK73FB2A153J	CHIP R	15K	J	1/10W		
R336			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R337			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R339,340			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
⚠ R341			R92-1945-05	METAL GLAZE	1	J	1/4W		
R342-344			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R347			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R349			RS14KB3A4R7J	FL-PROOF RS	4.7	J	1W		
⚠ R350			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R351			RK73FB2A103J	CHIP R	10K	J	1/10W		
R352			RK73FB2A223J	CHIP R	22K	J	1/10W		
R353			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R356-358			RK73FB2A103J	CHIP R	10K	J	1/10W		
R360			RK73FB2A103J	CHIP R	10K	J	1/10W		
R361,362			RK73FB2A473J	CHIP R	47K	J	1/10W		
R363			RK73FB2A361J	CHIP R	360	J	1/10W		
R370			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R371			RK73FB2A563J	CHIP R	56K	J	1/10W		
R372			RK73FB2A104J	CHIP R	100K	J	1/10W		
R373			RK73FB2A361J	CHIP R	360	J	1/10W		
R375			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R377,378			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R384			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R387,388			RK73FB2A473J	CHIP R	47K	J	1/10W		
R389			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R390			RK73FB2A473J	CHIP R	47K	J	1/10W		
R391-394			RK73FB2A470J	CHIP R	47	J	1/10W		
⚠ R397-399			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ R601			RD14NB2E1R0J	RD	1	J	1/4W		
R604			RD14NB2E390J	RD	39	J	1/4W		
R609			RD14NB2E151J	RD	150	J	1/4W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W108			R92-0670-05	CHIP R	0 OHM				
W301			R92-0679-05	CHIP R	0 OHM				
W302			R92-0670-05	CHIP R	0 OHM				
W303-306			R92-0679-05	CHIP R	0 OHM				
W307			R92-0670-05	CHIP R	0 OHM				
W308			R92-0679-05	CHIP R	0 OHM				
W309-311			R92-0670-05	CHIP R	0 OHM				
W312			R92-0679-05	CHIP R	0 OHM				
W313			R92-0670-05	CHIP R	0 OHM				
W315-318			R92-0679-05	CHIP R	0 OHM				
W319,320			R92-0670-05	CHIP R	0 OHM				
W321			R92-0679-05	CHIP R	0 OHM				
W322,323			R92-0670-05	CHIP R	0 OHM				
W324-333			R92-0679-05	CHIP R	0 OHM				
W336			R92-0679-05	CHIP R	0 OHM				

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
W338,339			R92-0670-05	CHIP R 0 OHM		
W340,341			R92-0679-05	CHIP R 0 OHM		
W342,343			R92-0670-05	CHIP R 0 OHM		
W506			R92-0679-05	CHIP R 0 OHM		
W513,514			R92-0679-05	CHIP R 0 OHM		
W523			R92-0679-05	CHIP R 0 OHM		
W651-655			R92-0670-05	CHIP R 0 OHM		
W659,660			R92-0670-05	CHIP R 0 OHM		
W662			R92-0670-05	CHIP R 0 OHM		
W680			R92-0679-05	CHIP R 0 OHM		
W684,685			R92-0679-05	CHIP R 0 OHM		
K1 ,2			S76-0042-05	MAGNETIC RELAY		
K1 ,2		✻	S76-0112-05	MAGNETIC RELAY		
K4			S76-0042-05	MAGNETIC RELAY		
K4		✻	S76-0112-05	MAGNETIC RELAY		
⚠ K601			S76-0099-05	MAGNETIC RELAY		
D1		✻	HZU3.3(B2)	ZENER DIODE		
D1			UDZ3.3B	ZENER DIODE		
⚠ D101			D5SBA20F03	DIODE		
⚠ D102			S1ZB20(4101)	DIODE		
⚠ D103			RBV-602LFA	DIODE		
D104			HZS16N(B2)	ZENER DIODE		
D104			MTZJ16(B)	ZENER DIODE		
D105			HZS15N(B2)	ZENER DIODE		
D105			MTZJ15(B)	ZENER DIODE		
D106,107			MA111	DIODE		
D108			UDZ5.6B	ZENER DIODE		
D109			UDZ11B	ZENER DIODE		
D110		✻	HZU10(B2)	ZENER DIODE		
D110			UDZ10B	ZENER DIODE		
D111-115			MA111	DIODE		
D117-120		✻	HZU15(B2)	ZENER DIODE		
D117-120			UDZ15B	ZENER DIODE		
D121			MA111	DIODE		
D122		✻	HZU3.9(B2)	ZENER DIODE		
D122			UDZ3.9B	ZENER DIODE		
D123			HSS104A	DIODE		
D123			1SS133	DIODE		
D124		✻	HZU3.9(B2)	ZENER DIODE		
D124			UDZ3.9B	ZENER DIODE		
D127,128			MA111	DIODE		
D130			MA111	DIODE		
D201			DA204U	DIODE		
D201			MA143A	DIODE		
D201			1SS302	DIODE		
D203			HZS8.2N(B2)	ZENER DIODE		
D203			MTZJ8.2(B)	ZENER DIODE		
D204			HZS5.1N(B2)	ZENER DIODE		
D204			MTZJ5.1(B)	ZENER DIODE		
D209			HZS3.3N(B2)	ZENER DIODE		
D209			MTZJ3.3(B)	ZENER DIODE		
D211			MA111	DIODE		
D213			MA111	DIODE		
⚠ D601			S1ZB20(4101)	DIODE		

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⚠ D602-605			HSS104A	DIODE		
⚠ D602-605			1SS133	DIODE		
D608			RB721Q	DIODE		
⚠ IC101			STK412-010A	HYBRID IC		
IC102			STK413-010A	HYBRID IC		
⚠ IC103			KIA7812API	ANALOGUE IC		
⚠ IC104		✻	KIA7912PI	ANALOGUE IC		
IC105			NJM4580ED	ANALOGUE IC		
IC106			NJU7313AM	ANALOGUE IC		
IC107,108			NJM4565M	ANALOGUE IC		
IC107,108			NJM4565MD	IC(OP AMP X2)		
IC107,108			NJM4580E	ANALOGUE IC		
IC107,108			NJM4580ED	ANALOGUE IC		
IC109			NJU7313AM	ANALOGUE IC		
IC110-112			NJM4565M	ANALOGUE IC		
IC110-112			NJM4565MD	IC(OP AMP X2)		
IC110-112			NJM4580E	ANALOGUE IC		
IC110-112			NJM4580ED	ANALOGUE IC		
IC201			LA1837	ANALOGUE IC		
IC202			LC72131	MOS-IC		
⚠ IC602			BA05T	ANALOGUE IC		
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC2785(F,E)	TRANSISTOR		
Q5 ,6			2SD2351	TRANSISTOR		
Q7 ,8			2SC1740S(Q,R)	TRANSISTOR		
Q7 ,8			2SC2785(F,E)	TRANSISTOR		
Q11 ,12			2SD2351	TRANSISTOR		
Q13 ,14			2SC1740S(Q,R)	TRANSISTOR		
Q13 ,14			2SC2785(F,E)	TRANSISTOR		
Q16			2SD2351	TRANSISTOR		
Q17			2SC2878(B)	TRANSISTOR		
Q51 -53			2SA1576A(R,S)	TRANSISTOR		
Q51 -53			2SB1218A(Q,R)	TRANSISTOR		
⚠ Q54			2SB1640	TRANSISTOR		
Q113-117			2SC3906K	TRANSISTOR		
Q118			2SA1576A(R,S)	TRANSISTOR		
Q118			2SB1218A(Q,R)	TRANSISTOR		
Q119,120			2SC3906K	TRANSISTOR		
Q121			2SA1576A(R,S)	TRANSISTOR		
Q121			2SB1218A(Q,R)	TRANSISTOR		
Q122,123			2SC1845(F,E)	TRANSISTOR		
Q132			2SC3906K	TRANSISTOR		
Q133			2SB1566	TRANSISTOR		
Q134			2SC1845(F,E)	TRANSISTOR		
Q135			2SA1576A(R,S)	TRANSISTOR		
Q135			2SB1218A(Q,R)	TRANSISTOR		
Q136			DTC113ZUA	DIGITAL TRANSISTOR		
Q136			UN5219	DIGITAL TRANSISTOR		
⚠ Q137			2SD2395	TRANSISTOR		
⚠ Q138			2SB1640	TRANSISTOR		
Q139,140			DTC123JUA	DIGITAL TRANSISTOR		
Q142			DTC123JUA	DIGITAL TRANSISTOR		
Q201			2SC4081(R,S)	TRANSISTOR		
Q201			2SD1819A(Q,R)	TRANSISTOR		
Q202			2SA1576A(R,S)	TRANSISTOR		

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Q202			2SB1218A(Q,R)	TRANSISTOR				
Q206,207			2SC4081(R,S)	TRANSISTOR				
Q206,207			2SD1819A(Q,R)	TRANSISTOR				
Q210,211			2SD1757K	TRANSISTOR				
Q212			2SA1576A(R,S)	TRANSISTOR				
Q212			2SB1218A(Q,R)	TRANSISTOR				
Q214			2SA1576A(R,S)	TRANSISTOR				
Q214			2SB1218A(Q,R)	TRANSISTOR				
Q601			2SC1740S(Q,R)	TRANSISTOR				
Q601			2SC2785(F,E)	TRANSISTOR				
A1			W02-2584-05	FM FRONT-END ASSY				
PREAMPLIFIER UNIT (X08-3010-11)								
C1 ,2			CE04RW1C100M	ELECTRO	10UF	16WV		
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C4			CC73GCH1H101J	CHIP C	100PF	J		
C5 ,6			CK73FB1H222K	CHIP C	2200PF	K		
C7 ,8			CK73FB1E104K	CHIP C	0.10UF	K		
C9 ,10			CE04RW1C4R7M	ELECTRO	4.7UF	16WV		
C21			CK73FB1E104K	CHIP C	0.10UF	K		
C22			CE04LW1H100M	ELECTRO	10UF	50WV		
C23			CK73FB1H102K	CHIP C	1000PF	K		
C24 ,25			CK73FB1E104K	CHIP C	0.10UF	K		
C26			CK73FF1C105Z	CHIP C	1.0UF	Z		
C27			C91-1597-05	CERAMIC	4.7UF	Z		
C29			CK73FB1H103K	CHIP C	0.010UF	K		
C31			CC73FCH1H220J	CHIP C	22PF	J		
C32			CK73GB1H472K	CHIP C	4700PF	K		
C33			CC73FCH1H220J	CHIP C	22PF	J		
C34			CK73FB1H472K	CHIP C	4700PF	K		
C35			CK73FF1C105Z	CHIP C	1.0UF	Z		
C41			CC73FCH1H220J	CHIP C	22PF	J		
C42			CC73FCH1H270J	CHIP C	27PF	J		
C43			CK73FB1H102K	CHIP C	1000PF	K		
C44			CK73GB1H102K	CHIP C	1000PF	K		
C45			CK73FB1H103K	CHIP C	0.010UF	K		
C46			CC73GCH1H220J	CHIP C	22PF	J		
C54 ,55			CC73FCH1H220J	CHIP C	22PF	J		
C56			CK73FB1H102K	CHIP C	1000PF	K		
C57			CK73FF1C105Z	CHIP C	1.0UF	Z		
C58 ,59			CK73FB1H103K	CHIP C	0.010UF	K		
C103,104			CK73FF1C105Z	CHIP C	1.0UF	Z		
C105,106			CK73FB1H182K	CHIP C	1800PF	K		
C107,108			CK73FB1H222K	CHIP C	2200PF	K		
C109			CK73FB1H103K	CHIP C	0.010UF	K		
C110			CC73GCH1H101J	CHIP C	100PF	J		
C121,122			CC73GCH1H220J	CHIP C	22PF	J		
C125			CK73FB1H103K	CHIP C	0.010UF	K		
C126			CC73FCH1H101J	CHIP C	100PF	J		
C141			CC73FCH1H101J	CHIP C	100PF	J		
C151,152			CK73FF1C225Z	CHIP C	2.2UF	Z		
C153,154			CC73FCH1H101J	CHIP C	100PF	J		
C155,156			CK73FF1C105Z	CHIP C	1.0UF	Z		
C157-160			CK73FF1C225Z	CHIP C	2.2UF	Z		
C161,162			CK73FB1H822K	CHIP C	8200PF	K		

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C163,164			CK73FB1H153K	CHIP C	0.015UF	K		
C165,166			CK73FB1C334K	CHIP C	0.33UF	K		
C167,168			CK73FF1C225Z	CHIP C	2.2UF	Z		
C169,170			CK73GB1H222K	CHIP C	2200PF	K		
C177-182			CK73FF1C225Z	CHIP C	2.2UF	Z		
C183			CK73FF1C105Z	CHIP C	1.0UF	Z		
C184			CC73FCH1H221J	CHIP C	220PF	J		
C185,186			CK73FB1E104K	CHIP C	0.10UF	K		
C187,188			CK73GB1H102K	CHIP C	1000PF	K		
C203,204			CK73FF1C105Z	CHIP C	1.0UF	Z		
C205,206			CK73FB1H222K	CHIP C	2200PF	K		
C207,208			CK73FB1H821K	CHIP C	820PF	K		
C209			CK73FB1H103K	CHIP C	0.010UF	K		
C210			CC73GCH1H101J	CHIP C	100PF	J		
C251-256			CC73FCH1H221J	CHIP C	220PF	J		
C303,304			CK73FF1C105Z	CHIP C	1.0UF	Z		
C305			CK73FB1H182K	CHIP C	1800PF	K		
C306			CK73FB1H682K	CHIP C	6800PF	K		
C307			CK73FB1H222K	CHIP C	2200PF	K		
C308			CK73FB1H822K	CHIP C	8200PF	K		
C309			CK73FB1H103K	CHIP C	0.010UF	K		
C310			CC73GCH1H101J	CHIP C	100PF	J		
C401-403			CK73FB1H103K	CHIP C	0.010UF	K		
C411,412			CC73FCH1H220J	CHIP C	22PF	J		
C413,414			CC73GCH1H220J	CHIP C	22PF	J		
C415-418			CC73GCH1H101J	CHIP C	100PF	J		
C419			CC73GCH1H100D	CHIP C	10PF	D		
C450			CK73FB1H103K	CHIP C	0.010UF	K		
C451			CK73FB1E104K	CHIP C	0.10UF	K		
C452			CE04LW1C222M	ELECTRO	2200UF	16WV		
C453,454			CK73FB1E104K	CHIP C	0.10UF	K		
C455			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C456,457			CK73FB1E104K	CHIP C	0.10UF	K		
C458			C92-0047-05	CHIP-ELE	47UF	6.3WV		
C459,460			CK73FB1E104K	CHIP C	0.10UF	K		
C461			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C501-504			CK73FB1E104K	CHIP C	0.10UF	K		
C505			CK73FB1H102K	CHIP C	1000PF	K		
C506			CC73FCH1H471J	CHIP C	470PF	J		
C507			CK73FB1H103K	CHIP C	0.010UF	K		
C508			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C509			CE04LW1E470M	ELECTRO	47UF	25WV		
C510,511			CK73FB1H103K	CHIP C	0.010UF	K		
C601			CC73FCH1H470J	CHIP C	47PF	J		
C602			CE04LW1E470M	ELECTRO	47UF	25WV		
C603			CC73FCH1H470J	CHIP C	47PF	J		
C604			CE04LW1E470M	ELECTRO	47UF	25WV		
C607			CC73FCH1H470J	CHIP C	47PF	J		
C608			CE04LW1E470M	ELECTRO	47UF	25WV		
C609,610			CC73FCH1H470J	CHIP C	47PF	J		
C621,622			CK73FB1E104K	CHIP C	0.10UF	K		
C751,752			CC73FCH1H221J	CHIP C	220PF	J		
C753			CK73FB1H103K	CHIP C	0.010UF	K		
C900			CE04LW0J331M	ELECTRO	330UF	6.3WV		

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CN1			E40-8485-05	FLAT CABLE CONNECTOR					
CN2			E40-8484-05	FLAT CABLE CONNECTOR					
CN5			E40-4248-05	PIN ASSY					
CN5			E40-8358-05	PIN ASSY					
J1			E63-1080-05	PIN JACK					
J2			E63-1139-05	PIN JACK					
J61			E63-1141-05	PIN JACK					
J75			E11-0293-05	MINIATURE PHONE JACK(2P)					
L31 ,32			L92-0511-05	CHIP FERRITE					
L41			L92-0510-05	CHIP FERRITE					
X1			L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)					
CP41-44			R90-0728-05	MULTI-COMP	180 X4				
CP51,52			R90-0714-05	MULTI-COMP	10K X4				
R1 ,2			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R3 ,4			RK73FB2A101J	CHIP R	100	J	1/10W		
R5 ,6			RK73FB2A471J	CHIP R	470	J	1/10W		
R7 -10			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R11 ,12			RK73FB2A471J	CHIP R	470	J	1/10W		
R20			R92-1946-05	METAL GLAZE	4.7	J	1/4W		
R21			RK73FB2A221J	CHIP R	220	J	1/10W		
R31 ,32			RK73FB2A820J	CHIP R	82	J	1/10W		
R33			RK73FB2A471J	CHIP R	470	J	1/10W		
R34			RD14NB2E4R7J	RD	4.7	J	1/4W		
R41 ,42			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R43 -45			RK73FB2A221J	CHIP R	220	J	1/10W		
R54			RK73FB2A912J	CHIP R	9.1K	J	1/10W		
R55 -58			RK73FB2A221J	CHIP R	220	J	1/10W		
R59			RK73FB2A101J	CHIP R	100	J	1/10W		
R66			RK73FB2A104J	CHIP R	100K	J	1/10W		
R67			RK73FB2A103J	CHIP R	10K	J	1/10W		
R68			RK73FB2A221J	CHIP R	220	J	1/10W		
R101,102			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R103,104			RK73FB2A104J	CHIP R	100K	J	1/10W		
R107,108			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R109,110			RK73FB2A103J	CHIP R	10K	J	1/10W		
R111,112			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R113,114			RK73FB2A221J	CHIP R	220	J	1/10W		
R121-124			RK73FB2A103J	CHIP R	10K	J	1/10W		
R125,126			RK73FB2A101J	CHIP R	100	J	1/10W		
R127,128			RK73FB2A242J	CHIP R	2.4K	J	1/10W		
R151-156			RK73FB2A100J	CHIP R	10	J	1/10W		
R157,158			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R159-164			RK73FB2A101J	CHIP R	100	J	1/10W		
R165			RK73FB2A751J	CHIP R	750	J	1/10W		
R166			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R168,169			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R170,171			RK73FB2A471J	CHIP R	470	J	1/10W		
R172-175			RK73FB2A473J	CHIP R	47K	J	1/10W		
R201,202			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R203,204			RK73FB2A104J	CHIP R	100K	J	1/10W		
R207,208			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R209,210			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R211,212			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R213,214			RK73FB2A221J	CHIP R	220	J	1/10W		

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⓮

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R215,216			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R217,218			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R251,252			RK73FB2A153J	CHIP R	15K	J	1/10W		
R253,254			RK73FB2A223J	CHIP R	22K	J	1/10W		
R255,256			RK73FB2A103J	CHIP R	10K	J	1/10W		
R257,258			RK73FB2A223J	CHIP R	22K	J	1/10W		
R259,260			RK73FB2A103J	CHIP R	10K	J	1/10W		
R261,262			RK73FB2A223J	CHIP R	22K	J	1/10W		
R301			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R302			RK73FB2A103J	CHIP R	10K	J	1/10W		
R303,304			RK73FB2A104J	CHIP R	100K	J	1/10W		
R307			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R308			RK73FB2A123J	CHIP R	12K	J	1/10W		
R309,310			RK73FB2A103J	CHIP R	10K	J	1/10W		
R311,312			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R313,314			RK73FB2A221J	CHIP R	220	J	1/10W		
R401-406			RK73FB2A471J	CHIP R	470	J	1/10W		
R407			RK73FB2A473J	CHIP R	47K	J	1/10W		
R412			RK73FB2A221J	CHIP R	220	J	1/10W		
R426,427			RK73FB2A221J	CHIP R	220	J	1/10W		
R428			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R431,432			RK73FB2A103J	CHIP R	10K	J	1/10W		
R450			R92-1918-05	CHIP R	0.33	J	1/4W		
R451,452			R92-1945-05	METAL GLAZE	1	J	1/4W		
R453			R92-1946-05	METAL GLAZE	4.7	J	1/4W		
R454		✻	R92-1960-05	METAL GLAZE	2.2	J	1/4W		
R455		✻	R92-2170-05	CHIP R	10	J	1W		
R461,462			RK73FB2A221J	CHIP R	220	J	1/10W		
R463			RK73FB2A473J	CHIP R	47K	J	1/10W		
R464			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R465			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R501-503			RK73FB2A221J	CHIP R	220	J	1/10W		
R505			RK73FB2A103J	CHIP R	10K	J	1/10W		
R514			RK73FB2A101J	CHIP R	100	J	1/10W		
R515			RK73FB2A221J	CHIP R	220	J	1/10W		
R516			RK73FB2A103J	CHIP R	10K	J	1/10W		
R517			RK73FB2A221J	CHIP R	220	J	1/10W		
R518			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R519			RK73FB2A221J	CHIP R	220	J	1/10W		
R520,521			RK73FB2A103J	CHIP R	10K	J	1/10W		
R522,523			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R524			RK73FB2A333J	CHIP R	33K	J	1/10W		
R527			RK73FB2A103J	CHIP R	10K	J	1/10W		
R601			RK73FB2A820J	CHIP R	82	J	1/10W		
R603			RK73FB2A820J	CHIP R	82	J	1/10W		
R607			RK73FB2A820J	CHIP R	82	J	1/10W		
R609			RK73FB2A104J	CHIP R	100K	J	1/10W		
R610			RK73FB2A680J	CHIP R	68	J	1/10W		
R611			RK73FB2A104J	CHIP R	100K	J	1/10W		
R612			RK73FB2A680J	CHIP R	68	J	1/10W		
R613			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R631,632			RK73FB2A681J	CHIP R	680	J	1/10W		
R633,634			R92-1954-05	METAL GLAZE	100	J	1/10W		
D1			DAN202U	DIODE					

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⑮

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D1			MA142WK	DIODE		
D1			1SS301	DIODE		
D2			DAP202U	DIODE		
D2			MA142WA	DIODE		
D2			1SS300	DIODE		
D3			DAN202U	DIODE		
D3			MA142WK	DIODE		
D3			1SS301	DIODE		
D6			MA111	DIODE		
D41			S1ZB20(4072)	DIODE		
D42 ,43		✻	HZU5.6(B2)	ZENER DIODE		
D42 ,43			UDZ5.6B	ZENER DIODE		
D44		✻	HZU3.9(B2)	ZENER DIODE		
D44			UDZ3.9B	ZENER DIODE		
D51 ,52			MA111	DIODE		
D61 ,62		✻	HZU5.6(B2)	ZENER DIODE		
D61 ,62			UDZ5.6B	ZENER DIODE		
D75 ,76			MA111	DIODE		
D151,152		✻	HZU7.5(B2)	ZENER DIODE		
D151,152			UDZ7.5B	ZENER DIODE		
IC1			NJM4565MD	IC(OP AMP X2)		
IC2			AK4527-VQ	MOS-IC		
IC4			TC7WU04FU	MOS-IC		
IC5			AK4110-VF	MOS-IC		
IC6			TC7WH123FU	MOS-IC		
IC11			NJM4565MD	IC(OP AMP X2)		
IC12			NJU7311AM	MOS-IC		
IC13			NJM4565MD	IC(OP AMP X2)		
IC14			NJU7311AM	MOS-IC		
IC15			M62446FP	ANALOGUE IC		
IC21			NJM4565MD	IC(OP AMP X2)		
IC31			NJM4565MD	IC(OP AMP X2)		
IC41			TC74HC07AF	MOS-IC		
IC42			TC74HCT7007AF	MOS-IC		
IC45			TA48M05F	ANALOGUE IC		
IC46			TA48M033F	ANALOGUE IC		
IC47			TA48M025F	ANALOGUE IC		
IC51			CS493253-CLR	MOS-IC		
IC51			CS493263-CLR	MOS-IC		
IC61			NJM2279M	ANALOGUE IC		
Q1			DTC124EUA	DIGITAL TRANSISTOR		
Q1			UN5212	DIGITAL TRANSISTOR		
Q15			2SD1664(Q,R)	TRANSISTOR		
Q16			2SB1132(Q,R)	TRANSISTOR		
Q41			2SC4081(R,S)	TRANSISTOR		
Q41			2SD1819A(Q,R)	TRANSISTOR		
Q42			2SA1576A(R,S)	TRANSISTOR		
Q42			2SB1218A(Q,R)	TRANSISTOR		
Q61			2SD1664(Q,R)	TRANSISTOR		
Q62			2SB1132(Q,R)	TRANSISTOR		
A1			W02-2716-05	OPTIC RECEIVING MODULE		
DISPLAY UNIT (X14-7122-73)						
D1			B30-2567-05	LED(RED(80) HI-BR)		
D3 -5			B30-2545-05	LED(RED3(160))		

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⑯

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C1			CE04RW1A101M	ELECTRO	100UF	10WV		
C2			CK73FB1H103K	CHIP C	0.010UF	K		
C3			CE04RW1H010M	ELECTRO	1.0UF	50WV		
C4 ,5			CE04RW1C100M	ELECTRO	10UF	16WV		
C6			CE04RW0J100M	ELECTRO	10UF	6.3WV		
C7			CK73FB1H103K	CHIP C	0.010UF	K		
C9			CC73FCH1H470J	CHIP C	47PF	J		
C10 -19			CK73FB1H103K	CHIP C	0.010UF	K		
C20 ,21			CK73FB1C104K	CHIP C	0.10UF	K		
C22			CK73FF1C105Z	CHIP C	1.0UF	Z		
C23 ,24			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C25			CK73FB1H103K	CHIP C	0.010UF	K		
C26 ,27			CC73FCH1H270J	CHIP C	27PF	J		
C28			CC73FCH1H561J	CHIP C	560PF	J		
C29			CC73FCH1H271J	CHIP C	270PF	J		
C30			CE04RW1V2R2M	ELECTRO	2.2UF	35WV		
C31			CC73FCH1H101J	CHIP C	100PF	J		
C32			CE04RW0J220M	ELECTRO	22UF	6.3WV		
C33 -35			CC73FCH1H101J	CHIP C	100PF	J		
C36 ,37			CC73FCH1H470J	CHIP C	47PF	J		
C38			CE04RW1H330M	ELECTRO	33UF	50WV		
C39			CK73FB1H103K	CHIP C	0.010UF	K		
C40			C90-1826-05	BACKUP-C	0.047F	5.5WV		
C43 ,44			CC73FCH1H101J	CHIP C	100PF	J		
C45 ,46			CC73FCH1H470J	CHIP C	47PF	J		
C47			CC73FCH1H101J	CHIP C	100PF	J		
C50			CC73FCH1H101J	CHIP C	100PF	J		
C52			CK73FB1H103K	CHIP C	0.010UF	K		
C53			CC73FCH1H101J	CHIP C	100PF	J		
C54			CE04RW1H4R7M	ELECTRO	4.7UF	50WV		
C55			CC73FCH1H470J	CHIP C	47PF	J		
C56			CC73FCH1H220J	CHIP C	22PF	J		
C57			CC73FCH1H221J	CHIP C	220PF	J		
C58			CC73FCH1H470J	CHIP C	47PF	J		
C59			CK73FF1C105Z	CHIP C	1.0UF	Z		
C61			CC73FCH1H101J	CHIP C	100PF	J		
C106,107			CC73FCH1H101J	CHIP C	100PF	J		
CN1			E40-8510-05	FLAT CABLE CONNECTOR				
CN2			E40-8504-05	FLAT CABLE CONNECTOR				
CN3			E40-3247-05	PIN ASSY				
CN5			E40-3261-05	PIN ASSY				
J1			E11-0272-05	PHONE JACK				
-			J19-5928-13	HOLDER				
E5 ,6			J11-0808-05	WIRE CLAMPER				
X1			L78-0714-05	RESONATOR	(8MHZ)			
X2			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				
CP1			R90-0855-05	MULTI-COMP	100KX5	J		
CP2 ,3			R90-0482-05	MULTI-COMP	100KX4	J	1/6W	
CP501			R90-0855-05	MULTI-COMP	100KX5	J		
CP502			R90-0850-05	MULTI-COMP	100KX3	J	1/6W	
R4			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R5			RK73FB2A103J	CHIP R	10K	J	1/10W	
R7			RK73FB2A104J	CHIP R	100K	J	1/10W	

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R8			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R12			RK73FB2A331J	CHIP R 330 J 1/10W		
R13 ,14			RK73FB2A104J	CHIP R 100K J 1/10W		
R15			RK73FB2A331J	CHIP R 330 J 1/10W		
R29			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R31 -33			RK73FB2A221J	CHIP R 220 J 1/10W		
R36 ,37			RK73FB2A104J	CHIP R 100K J 1/10W		
R38 -43			RK73FB2A103J	CHIP R 10K J 1/10W		
R44 -49			RK73FB2A101J	CHIP R 100 J 1/10W		
R50			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R52 ,53			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R57 ,58			RK73FB2A223J	CHIP R 22K J 1/10W		
R59 -63			RK73FB2A104J	CHIP R 100K J 1/10W		
R64			RK73FB2A101J	CHIP R 100 J 1/10W		
R65 ,66			RK73FB2A103J	CHIP R 10K J 1/10W		
R69 ,70			RK73FB2A103J	CHIP R 10K J 1/10W		
R71 ,72			RK73FB2A473J	CHIP R 47K J 1/10W		
R83			RK73FB2A564J	CHIP R 560K J 1/10W		
R98			RK73FB2A104J	CHIP R 100K J 1/10W		
R107-109			RK73FB2A104J	CHIP R 100K J 1/10W		
R110			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R111			RK73FB2A101J	CHIP R 100 J 1/10W		
R112			RK73FB2A473J	CHIP R 47K J 1/10W		
R113			RK73FB2A101J	CHIP R 100 J 1/10W		
R114			RK73FB2A104J	CHIP R 100K J 1/10W		
R118			RK73FB2A104J	CHIP R 100K J 1/10W		
R119-126			RK73FB2A101J	CHIP R 100 J 1/10W		
R127-129			RK73FB2A104J	CHIP R 100K J 1/10W		
R130			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R141,142			RK73FB2A104J	CHIP R 100K J 1/10W		
R143			RK73FB2A101J	CHIP R 100 J 1/10W		
R161,162			RK73FB2A104J	CHIP R 100K J 1/10W		
R501,502			RK73FB2A104J	CHIP R 100K J 1/10W		
W503			R92-0679-05	CHIP R 0 OHM		
W507			R92-0679-05	CHIP R 0 OHM		
W509			R92-0679-05	CHIP R 0 OHM		
W514			R92-0679-05	CHIP R 0 OHM		
S4 -18			S70-0031-05	TACT SWITCH		
⚠ S19			S68-0107-05	PUSH SWITCH		
S1			T99-0602-05	ROTARY ENCODER		
S2			T99-0630-05	ROTARY ENCODER		
D7			HZS6.2N(B2)	ZENER DIODE		
D7			MTZJ6.2(B)	ZENER DIODE		
D8 ,9			RB721Q	DIODE		
D11 ,12			MA111	DIODE		
D15 ,16			MA111	DIODE		
D17 -22			HSS104A	DIODE		
D17 -22			1SS133	DIODE		
D24			HSS104A	DIODE		
D24			1SS133	DIODE		
D28			HSS104A	DIODE		
D28			1SS133	DIODE		
D30			HSS104A	DIODE		

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D30			1SS133	DIODE		
D33			HSS104A	DIODE		
D33			1SS133	DIODE		
D34			MA111	DIODE		
ED1		✻	HNA-11MS24	FLUORESCENT INDICATOR TUBE		
ED1		✻	11-MT-125GK	FLUORESCENT INDICATOR TUBE		
IC1			MN101C35DRA4	MI-COM IC		
IC2			S-80840ANY	ANALOGUE IC		
IC3			TA78057F	ANALOGUE IC		
IC4			BU1923F	ANALOGUE IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q3 -5			2SC4081(R,S)	TRANSISTOR		
Q6			DTC113ZUA	DIGITAL TRANSISTOR		
Q6			UN5219	DIGITAL TRANSISTOR		
Q9 -11			DTC113ZUA	DIGITAL TRANSISTOR		
Q9 -11			UN5219	DIGITAL TRANSISTOR		
Q12 ,13			2SA1576A(R,S)	TRANSISTOR		
Q14			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

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HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT ABB.	Australia X	Canada P	China C	England T	Europe E	Germany G	Korea H	Malaysia I
KRF-V4550D	-	-	-	-	-	E	-	-	-
KRF-V4550DE	-	-	-	-	-	E1	-	-	-
KRF-V4550D-S	-	-	-	-	-	E2	-	-	-

MODEL	CNT ABB.	Mexico R	PX/AAFES Y	Russia Q	Scandinavia L	Shanghai V	USA K	Other area M	
KRF-V4550D	-	-	-	-	-	-	-	-	-
KRF-V4550DE	-	-	-	-	-	-	-	-	-
KRF-V4550D-S	-	-	-	-	-	-	-	-	-

KRF-V4550D/V4550DE/V4550D-S

SPECIFICATIONS

AUDIO section

Rated power output during STEREO operation
DIN/IEC (DIN 1 kHz, 0.7%, 4Ω) ..... 60 W + 60 W
Effective power output during SURROUND operation
FRONT (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W + 80 W
CENTER (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W
SURROUND (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 60 W + 60 W
Total harmonic distortion ..... 0.04% (1 kHz, 30W, 4 Ω)
Frequency response (IHF '66)
CD ..... 13 Hz ~ 53 kHz, +0 dB, –3.0 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 75 dB
CD ..... 91 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 27 kΩ
CD ..... 200 mV / 47 kΩ
MONITOR IN (VIDEO2/MONITOR) ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 1 kΩ
MONITOR OUT (VIDEO2/MONITOR) ..... 200 mV / 1 kΩ
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (DIN at 75 Ω)
MONO ..... 1.2 μV/13.2 dBf (40 kHz dev. S/N 26 dB)
STEREO ..... 45 μV/42.1 dBf (46 kHz dev. S/N 46 dB)
Total harmonic distortion (1 kHz)
MONO ..... 0.2% (65.2 dBf input)
STEREO ..... 0.8% (65.2 dBf input)
Signal to noise ratio (DIN weighted)
MONO ..... 65 dB (40 kHz dev.65.2 dBf input)
STEREO ..... 60 dB (46 kHz dev. 65.2 dBf input)
Stereo separation (DIN 1 kHz) ..... 36 dB
Selectivity (DIN ±300 kHz) ..... 64 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity ..... 16 μV / (600 μV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption ..... 220 W

AC outlet
SWITCHED ..... (total 90 W max.)
Dimensions ..... W : 440 mm
H : 143 mm
D : 400 mm
Weight ..... 8.9 kg

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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